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AESTE ACT

Between 1959 and 1964, the number of farms with annual product sales of over \$100,000 rose from 19,979 to 31,401, increasing this group's share of the market from 16 to 24 percent. During the same period, the 40% farms reaching the \$1 million mark with a 4 percent share of the market increased to 919 farms with 7 percent or the market. This report analyzes the characteristics of these increasingly important large-scale farms. The data indicate that the operators of the larger farms differ from other operators in educational background, but not in age. The typical large-scale farm is a meat-producing farm located in the West The report notes that technical efficiency is greater on the large farm, but the ratio of purchased inputs per unit of output is much lower for the small farm. (FB)



U.S. DEPARTMENT OF HEALTH, EDUCATION

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OUR 31,000 LARGEST FARMS

AGRICULTURAL ECONOMIC REPORT No. 175
ECONOMIC RESEARCH SERVICE
U.S. DEPARTMENT OF AGRICULTURE



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UNITED STATES DEPARTMENT OF AGRICULTURE Economic Research Service Farm Production Economics Division

ERRATA

OUR 31,000 LARGEST FARMS, U.S. Dept. Agr., Agr. Econ. Rpt. No. 175, March 1970.

- Page 14, table 8, unit column, opposite vegetables-change line 23 to "Acres harvested" and change line 24 to "Sales in dollars."
- Page 16, table 9, unit column, opposite vegetableschange line 22 to "Sales in dollars" and change line 23 to "Acres harvested."
- Page 17, table 10, column 1, row 2, opposite tobacco-change 31.4 to 62.9.
- Page 23, paragraph 1, lines 7 and 8, change percentages as follows:
 - 81 percent to 79 percent
 - 64 percent to 61 percent
 - 69 percent to 64 percent
- Page 35, paragraph 2, line ?, should read-...
 "...operators with less education..."



PREFACE

This report is based mainly on information shown in a special tabulation of 1964 Census of Agriculture data for farms with annual sales of \$100,000 or more. The tabulation was obtained from the Bureau of the Census, Department of Commerce.

This tabulation permits us, for the first time, to present comprehensive national and regional information on the largest farms, by sales group, including farms with annual sales of \$1 million or more. These are the latest and only data available nationwide on the largest farms. The data were not available until 1969, and no new data are expected for several years to come.

Administrators, logislators, and the general public have expressed widespread interest and concern with respect to large-scale farms. This report will provide information that should help put issues concerning these farms into proper perspective, especially as concerns their importance in the future organizational structure of agriculture.

Specific acknowledgement of their valuable cooperation is made to J. Thomas Breen, Chief, and to Arnold L. Bollenbacher and John A. Blackledge, Statisticians, Agriculture Division, the Bureau of the Census. Acknowledgement is also due to Ella S. Wells, statistical assistant, USDA, whose competent statistical work served as the basis for this study.

Note: In this report, size of farm is delineated as follows:

Gross sales

Within the "largest" farm size, farms with sales of \$1 million or more are referred to is "Top-Scale."

Other sources frequently refer to the "Jargest" farms (sales of \$100,000 or more) as "large-scale" farming.

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March 1970



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SUMMARY

In 1964, 31,401 farms with product sales of \$100,000 or more accounted for 24 percent of all farm product sales. Of these largest U.S. farms, 919 had sales of \$1 million or more, or 7 percent of all sales. In 1959, only 19,979 farms had sales of \$100,000 or more, and 408 farms had sales of \$1 million or more--accounting for 16 percent and 4 percent of all farm sales.

The importance of these largest farms is especially pronounced in the West. In 1964, while farms with product sales of \$100,000 or more accounted for 12 percent of all farm product sales in the North and 24 percent in the South, they accounted for 53 percent in the West (see map on page iv). The concentration of a relatively small number of large farms in the West is evidenced by the fact that 524 farms with product sales of \$1 million or more--0.2 percent of all farms in the West--accounted for more than a fifth of all farm product sales in that part of the country. Farms of this size accounted for 5 percent of all farm product sales in the South and only 2 percent in the North.

Poultry and other meat-producing farms accounted for 42 percent of all farms with \$100,000 or more of sales and for 47 percent of their marketings. Within this sales group, meat-producing farms accounted for 54 percent of all farms with sales of \$1 million or more, and 59 percent of their marketings.

Farms with sales of \$100,000 or more had 121 million acres of land-11 percent of total farmland. This acreage was mostly in grazing land-66 percent--followed by 24 percent in cropland and 7 percent in woodland.

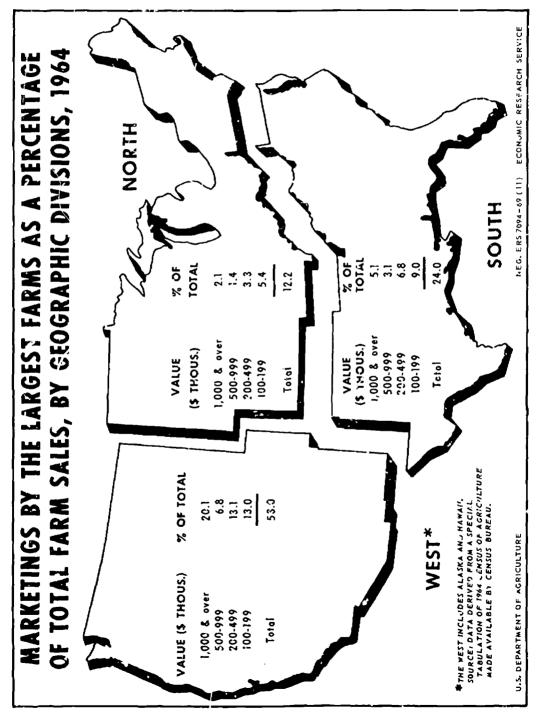
Operators on the largest farms are about the same age as those on other commercial farms, but they have a higher educational attainment.

Farms with sales of \$100,000 or more are predominantly operated with hired labor. However, in some parts of the country, such as in the Corn Belt and the Lake States regions, many of these farms are family-operated. In California in 1964, only 4 percent of all sales by these largest farms came from family-operated units, but in Iowa this proportion was 45 percent.

These largest farms have a greater technical efficiency than smaller farms, as measured by ratios such as acres harvested per machine, yield per acre, and output per animal. However, the ratio, purchased inputs per unit of output, for the largest farms is much greater than for smaller farms.



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OUR 31,000 LARGEST FARMS

by

Radoje Nikolitch, Agricultural Economist Farm Production Economics Division

INTRODUCTION

U.S. farms with annual sales of \$100,000 or more of farm products had average marketings of \$272,000 in 1964. In that year, more than 31,000 farms were in that size class. These farms are small businesses compared with firms in most other commodity-producing industries. However, they are the largest in the farm economy.

The aim of this report is to determine the relative position and recent trends of the largest farms in American agriculture. More specifically, the report will describe their types of enterprise, their production resources, the type of land tenure under which the farms are operated, the farm operators, the portion of farms that are family-operated, and how efficiently the largest farms use their production resources. This analysis, it is hoped, will contribute to a better understanding of the largest farms in U.S. agriculture and may also help to answer questions often asked about large-scale farming. For example, what is the real problem, if any, presented by big farms? Do they tend to dominate the farming industry? Is large-scale farming necessary on certain types of farms for economic efficiency?

RELATIVE SALES POSITION OF THE LARGEST FARMS

In 1959, 19,979 farms with sales of \$100,000 or more accounted for 0.5 percent of all farms and more than 16 percent of total farm marketings. By 1964 the number of such farms had increased considerably. In that year, 31,401 farms-about 1 percent of all farms-had sales of \$100,000 or more and accounted for almost a fourth of total farm marketings. The number of farms and value of sales expanded for all sales classes. The number of farms with sales of \$1 million or more increased from 408 in 1959 to 919 in 1964, accounting for 4.2 percent of all farm products sold in 1959, compared with 6.8 percent in 1964 (table 1). The importance of these farms varies greatly by business size of farm (explained below) and by region.

Business Size

On the basis of gross sales, all Census-reported farms were classified into four size groups for this report. The first group includes the largest farms, with annual sales of \$100,000 or more. The second group consists of large farms with annual sales of \$20,000 to \$99,999.



Table 1.--Number and sales of farms with sales of \$100,000 or more, and their percentage of cotal

		1959			1964	•	Sales as a	8S &
Size of farm in value of sales		Value o	Value of sales		Value o	Value of sales	percentage of total farm sales	age of rm sales
	rarms	Total	Per farm	rarms	Total	Per farm	1959	1964
	Number	Billion dollars 1/	1,000 dollars 2/	Number	Billion dellars	1,000 dollars	Percent	Percent
\$1,000,000 or more	: 408	1.3	3,166	919	7.7	2,576	4.2	6.8
666, 666\$-000, 005\$	9008	5.	651	1,574	1.1	678	1.7	3.1
\$200,000-\$499,999	. 4,570	1.3	280	7,760	2.2	290	4.2	6.4
	14,201	1.9	131	21,148	2.8	135	6.2	8.0
Total	19,979	5.0	249	31,401	8.5	272	16.3	24.3

i) Estimated by multiplying average sales by number of farms. $\overline{2}/$ Estimated by comparing sales distributions in 1959 and 1964.

Source: Data derived from a special tabulation of the 1964 Census of Agriculture made available by Bur. of Census.



The third group is composed of medium-sized farms, with annual sales of \$5,000 to \$19,999. The fourth group, small farms, includes all farms with sales of less than \$5,000. These farms are small commeccial units that provide inadequate employment for farm operators and income for their families or they are part-time and part-retirement units.1/

Changes in size in these four groups from 1959 to 1964 indicate a continuing trend toward fewer and larger commercial farms. Medium- and large-sized farms, in 1964, still accounted for the largest part of farm sales (68 percent), current farm operating expenses (62 percent), and farm real estate value (65 percent) (table 2).

Four additional observations are relevant for understanding the measurement of farm size by gross sales and the economic importance of farms in different size sectors.

Measurements Between Time Periods

Some economists have indicated problems in using gros; sales as a measure of size. For example, Mighell points out that "the usual comparisons of numbers of farms by economic classes between two periods in which there has been a general growth in size, seem to imply a faster rate of growth on the part of large farms than is actually the case. This is because a fixed set of sales classes cuts different sectors of the frequency distribution appropriate to each period." Using Lorenz curve analysis, he avoided the bias and found that gross sales per farm increased only slightly more in the higher percentiles. 2/2 The author of the present study is not a critic of gross sales as a reasure of farm size. 3/

Interfarm Trade of Farm Products

Increasing specialization among farmers, as is well known, is associated with a considerable increase in purchased inputs needed for farm production. What is not so often thought of is that this increasing specialization is associated also with an increasing degree of interfarm sales of farm products. That is, more and more farm products in their different processing stages are traded successively to different farms, mostly by dealers but also among farmers, before these products go to nonfarm markets. Thus, the amount of interfarm trade inflates considerably the reported value of gross sales by any group of farms, especially livestock farms. The extent of this inflation equals the cost of agricultural products paid to the farmer originally producing these products

^{2/} Ronald L. Mighell, paper given at annual meeting American Association of Agricultural Economists, University of Kentuck', Aug. 19-23, 1969.
3/ See this report, section on business size of farms, and Radoje Nikolitch and Dean E. McKee, "The Contribution of the Economic Classification of Farms to the Understanding of American Agriculture," Jour. of Farm Econ., Vol. 47, No. 5, Dec. 1965, pp. 1545-1554.



^{1/} Part-time and part-retirement units are small noncommercial farms with less than \$2,500 of farm products sold annually, and they are more residential than productive farms. Nonfarm occupation are the main source of income on part-time units, and various retirement benefits, as well as nonfarm occupations, are the main source of income on part-retirement units.

and real estate value of farm. Table 2.--Number of farms, sales, selected farm production expenditures.

Size of farm 1/	: Number of farms $\frac{2}{2}$	farms $\frac{2}{\cdot}$:	Sa	Sales	Selected ex	Selected expanditures $3/$: Real estate	Real estate value of farm
i	1959	1964	1959	7961	1959	1964	1959	1967
	Tnousands	Tousands	Mf llifen dollars	Million dollars	Million dollars	Million dollars	Million dollars	Million dollars
The largest	20	31	786,7	8,539	2,990	5,103	11,136	19,470
Large	292	371	10,319	13,588	5,321	6,544	31,074	50,503
Medium	1,137	972	11,428	10,267	4 .963	4,271	49,552	52,733
Sm#11 4/	2,256	1,782	3,789	2,754	1,953	1,581	31,860	35,395
Total	3,705	3,156	30,517	35,148	15,227	17,499	123,622	158,101
				Percentage	Percentage of total for all farms	all farms		
	Percent	Ferceat	Percent	Percent	Percent	Percent	Percent	Parcent
The largest	.: 0.5	1.0	16.3	24.3	19.6	29.2	9.0	12.3
Large	6.7	11.7	33,8	38.7	35.0	37.4	25.1	31.9
Wedium	30.7	30.8	37.5	29.2	32.6	24.4	40.1	33.4
Smali 4/	6.09	56.5	12.4	7.8	12.8	0-6	25.8	22.4
Total	130.0	100.0	100.0	100.0	100	100.0	100-0	100.0

^{1/} Farm sizes are measured as follows: The largest—sale. of \$100,000 or more; large——\$25, through \$19,999; and small—less than \$5,000.

2/ Indian reservations, institutional and other __ecial farms not included.

3/ Feed, livestock, seed, fertilizer, petroleum products, machine hire, and bired labor.

4/ Operator howeledge on these farms have, on the average, more nonfarm than farm income.

Source: Derived from the 1964 Gensus of Agriculture, Vol. II, Ch. 6.

and is reflected in gross sales of the farmer buying the products. Information is not available to determine exactly when and in what form farm products bought from other farms were resold to nonfarm markets. However, that part of the cost of such purchases paid to original producers on the selling farms provides a good indication of the proportion of interfarm sales included by farmers in reports of their total gross sales.

Interfarm trade increases with the size of farm. In 1964, such trade amounted to 27 percent of gross sales for farms with \$100,000 or more of sales, and 36 percent for the 919 units with sales of \$1 million or more (app. table 1).

Business Size_of Farms

Interfarm trade can measure fairly accurately the overestimation of net agricultural production on farms as a group. The Nation's largest farms have produced considerably fewer farm products in a value-added sense than would usually be estimated from their gross sales. But this fact does not lessen their economic importance or business size in other respects. The importance and size of a business is determined by the value of its purchased and nonpurchased inputs, as well as by the value of its output. Buying and selling, as well as managing and working, are all important economic activities and together shape the size and the economic importance of a business. For example, in a value-added sense, cattle feedlots have relatively little net agricultural production. However, as "buyers" of steers and feed and as "sellers" of large numbers of fed cattle, they influence and greatly control the supply, marketings, and quality of these farm products in a given region, if not nationally. Thus, the value of net agricultural production of large feedlots (capacity of 1,000 head or more) was estimated to have been less than \$99 million in 1964, or only 7.3 percent of the value of all cattle slaughtered in that year. But it was also estimated that such large feedlots accounted for a fifth of the total marketing of all cattle for slaughter (app. table 2).

Small Units

Units with less than \$5,000 of sales are probably not the farms of the future. But they continue to be an important part of the farm economy. In 1964, 1.8 million small farms had sales under \$5,000. Together, these farms sold \$2.8 billion of farm products-8 percent of total nationwide sales-and accounted for 23 percent of total farm real estate value, and 9 percent of the main purchased farm production inputs. 4/ More than 52 percent (about 6 million people) of the total farm population lived on these small units, where farming is mostly a partime occupation and a secondary source of family livelihood. 5/ However, in 1964, total value of marketings of small farms was higher than that for the few farms with sales of \$1 million or more. The economic and social significance of these aspects of U.S. farming organization can harely be overestimated.

^{4/} In 1964, small farms accounted for (by value) 8 percent of all corn produced, 9 percent of wheat, 25 percent of tobacco, 5 percent of milk sold, and 9 percent of all cattle and calves sold.

5/ 1964 Census of Agriculture, Vol. 2, Ch. 6, table 15, p. 641.



Regional Differences

The economic importance of large-scale farming differs greatly by geographic regions. Farms with sales of \$100,000 or more accounted for 12 percent of total 1964 farm marketings in the North, 24 percent in the South, and 53 percent in the West. These differences are even more pronounced for farms with sales of \$1 million or more. In 1964, such farms accounted for only 2 percent of total farm marketings in the North and 5 percent in the South. However, in the West, the 524 topscale farms accounted for 20 percent of all farm sales there (see map on inside cover and app. table 3).

A more complete regional analysis is possible for the Nation's largest farms when they are considered as one group. They are concentrated in the Pacific, Mountain, and Southern Plains regions and in each region have a different economic importance. In 1964, farms with sales of \$100,000 or more accounted for 59 percent of all farm sales in the Pacific region and 35 to 40 percent in the Mountain and Southeast regions, but less than 10 percent in the Lake States, Corn Belt, and Appalachian regions (tab¹: 3).

The economic importance of these farms differs even more by individual States. California alone had 22 percent of the total number and 28 percent of the total sales.

Average 1964 sales were highest in Arizona, Florida, and California--\$436,000, \$406,000, and \$342,000 respectively. They were only about \$200,000 in all States in the Corn Belt and Lake States regions (app. table 4).

Measuring the economic importance of a farm business by the value of its sales, we can separate States into three broad categories: States where marketings by farms with sales of \$100,000 or more accounted for more than 50 percent of the value of all farm products sold, States where this proportion ranged from more than 20 percent to 49.9 percent, and States where such marketings accounted for less than 20 percent of all farm products sold.

Arizona, California, and Florida are the States where the economic importance of large-scale farming is the greatest. In Arizona, farms with 1964 sales of \$100,000 or more accounted for 13 percent of all the State's farms and 78 percent of all farm products sold. In both California and Florida, these largest units accounted for 7 percent of all farms in these States and for 69 percent of all sales. In both the Lake States and the Corn Belt r gions, by contrast, the largest farms accounted for only about 5 percent of all farms and for less than 10 percent of all farm sales (fig. 1).

THE LARCEST FARMS BY TYPE OF ENTERPRISE

The economic importance of the largest farms varies also by type of farm, and within the types by region, source of sales, and specialization of production.

Cotton, poultry, and other meat-producing livestock farms (including ranches) account for most large-scale farms. In 1964, these types of farms constituted more than helf of all the largest farms (53 percent)



Table 3,--Number and cales of forms with sales of \$130,000 or more and their regional distribution, 1955 and 1964

: :	Number of farms	f farms	Sa	Sales	Percentage of total farm sal	Percentage of total farm sales	Average sa per farm	Average sales per farm	: 1964 regiona : distribution	1964 regional distribution
	1959	1964	1959	1967	1959	1964	1959	1964	Number	Sales
	Number	Number	Million dollars	Million	Percent	Percent	1,000 dollars	1,000 dollars	Percent	Percent
Vew England	384	862	75.0	192.9	12.3	26.9	195	224	2.7	2.3
Middle Atlantic	923	1,833	199.0	380.9	7.6	17.0	216	208	5.9	4.5
Lake States	5,1	1,228	99.2	246.0	3.5	7.6	183	200	3.9	2.9
Corn Belt	1,986	3,913	7.75.1	740.1	5.4	7.6	189	189	12.5	8.8
Northern Plains	1,486	2,271	381.6	656.7	11.6	17.7	257	289	7.3	7.8
Appalachíam	591	1,183	115.4	249.5	5.0	9.1	195	211	3.7	3.0
Jourhe ast	1,723	3,086	485.5	953.1	23.8	35.7	2.82	309	6.6	11.4
Delta S.ates	1,516	2,854	276.2	5.645	18.0	28.0	182	153	9.1	6.5
Southern Plains	2,278	2,775	7.64.7	703.5	17.2	24.9	204	254	6.3	8.4
Mountain	2,306	2,992	6.739	1,001.0	7 37	39.5	290	335	9.6	12.0
Pacific	6,127	8,:76	1,721.4	2,709.5	46.7	59 ,	281	327	26.5	32.4
United States $1/\dots$	19,861	31,273	4,861.0	5,382.9	16.0	24.2	245	268	100.0	100.0

1/ Hawaii not included.

Source: 1964 Gensus of Agriculture, Vol. I, State table 23.



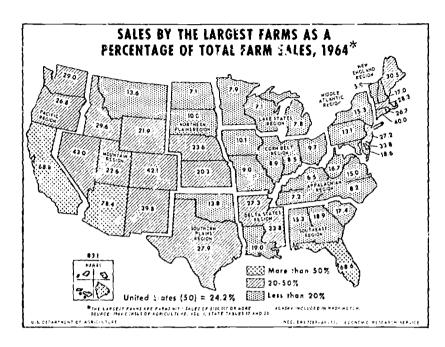


Figure 1

and more than half of their sales (55 percent). Vegetable, fruit, and other meat-producing livestock farms (including ranches), on the other hand, accounted for about two-thirds of all farms with sales of \$1 million or more (64 percent) and for two-thirds of their sales (68 percent) (app. table 5).

Although few in number, farms with sales of \$1 million or more are economically important in most types of farms. In 1964, the 94 topscale vegetable farms accounted for 23 percent of the sales of the Nation's 23,207 commercial vegetable farms. The 68 topscale field crop farms (other than cash-grain, tobacco, and cotton farms) with \$1 million or more sales, accounted for 16 percent of sales from the Nation's 35,130 commercial field crop farms. The 322 topscale livestock farms (other than poultry farms, dairy farms, and ranches) accounted for 11 percent ct all sales by the 514,529 commercial livestock farms. The 81 topscale ranches accounted for 20 percent of all sales by the 66,282 commercial ranches. The 48 topscale miscellaneous farms accounted for 8 percent of all sales by the 78,528 commercial miscellaneous farms. The sales proportions by units with sales of \$1 million or more were considerably smaller for the topscale cash-grain and dairy farms (table 4).

Two additional observations concerning the number and sales of farms with sales of \$100,000 or more are relevant here. Changes over time in the number of these farms varied greatly by type of farm. From 1959 to 1964, the largest farms of the field crop and poultry farm types increased in number at a fast rate. The rate was slower for the largest cotton, fruit, and dairy farms (app. table 6).



Table 4. -- Farms with sales of \$100,000 or more, by specified size, and their sales as a percentage

••	-		Size	in value of	sales	
Type of farm	All commercial farms	Total \$100,000 or more	; \$1,000,030 ; or more	666°666\$:	\$200,000- \$499,999	\$100,000- \$199,999
	No	No.	No.	No.	No.	No.
All commercial farms	2,165,712	31,401	919	1,574	7,760	21,148
Cash-grain	404,253	2,141	'n	29	345	1,762
Tobacco	171,384	102	11	7	2.7	57
Cotton	164,076	3,465	36	112	278	2,470
Other field crops	35,130	2,237	89 9	83.	560	1,526
Fruit and nut.	57.256	2.511	6 6	168	711	1.539
Poultry	82,120	7777	89	224	1,212	3,219
	366,967	2,576	19	93	609	1,855
Livestock farms (other than poultry and dairy farms and livestock ranches)	514.529	6.692	322	368	1.436	4.566
Tweatock ranches	66,282	1.815	81	117	4.85	1.132
Ceneral	201,980	1,884	53	06	504	1,237
Wiscellaneous	78,528	1,644	87	125	503	825
' <u>.</u> .	Sales	Sales	es as a percentage	of all	commercial farm sales	ales
	Mil.					
••	dol.	Pct.	Pct.	Pct.	Pet.	Pct.
All commercial farms	34,369	24.8	6.9	3.1	6.5	8.3
Cachegrajo	5 \$106	ý.	1.0	0.3	α -	6.3
Tobacco	1,119	0.4	2.2	7.0	0.7	0.7
Cotton	2,434	31.3	4.5	3.1	10.0	13.7
Other field crops	1,289	49.1	16.1	4.4	12.4	16.2
Veget Able	857	67.0	22.8	12.8	18.3	13.1
Fruit and nut	1,616	9.97	13.3	7.0	13.2	13.1
Poultry	2,919	38.0	5.7	5.3	12.1	14.9
Dairy	5,355	6.6	0.7	1.3	3.2	4.7
	8.295	26.8	11.4	3.0	5.0	7.4
Livestock ranches	1,410	46.5	19.7	5.7	10.3	10.8
General	2,621	18,3	7.0	2.3	5.6	7.9
Miscellaneous	976	44.5	7.5	8.4	15.0	13.6



Average sales of the largest farms also differ by type of farm. Those in the tobacco, vegetable, fruit, and meat-producing livestock groups had the highest average annual sales. The largest cash-grain and dairy farms had lower average sales. The largest cotton and other field crop farms had higher average sales than did the largest tobacco, vegetable, and fruit farms. For the 919 topscale farms (sales of \$1 million or more), livestock ranches and other field crop farms had the largest average annual sales (app. table 7).

Geographic Regions

In 1964, farms with sales of \$100,000 or more were slightly more numerous in the West than in the South, and slightly more numerous in the South than in the North (table 5). The largest vegetable, fruit, dairy, and general farms, as well as the largest livestock ranches, were concentrated in the West; and the largest cash-grain, tobacco, cotton, and poultry farms, in the South. Livestock and field crop farms, as well as miscellaneous farms, occurred mostly in the North.

The 919 farms with sales of \$1 million or more have a somewhat different geographic distribution by type of farm. Except for tobacco, miscellaneous, fruit, and poultry farms, topscale farms were centered in the West in 1964. Topscale tobacco and miscellaneous farms were mainly in the North. Fruit and poultry farms of this size were most numerous in the South. In 1964, the North had only 18 percent of all topscale farms and accounted for only 15 percent of total marketings from this size class (table 5 and app. table 8).

The dominance of the largest farms in the West is evident for all types of farms in that part of the country, but is especially pronounced for vegetable, cotton, other field crop, poultry, and other livestock farms (table 6 and app. tables 9, 10, and 11).

The size of these largest farms by type of farm also differs by regions. Generally, these farms are larger in the West and South than in the North (app. table 12).

The Source of Sales

An increasing amount of farm products are marketed from the largest farms. But these increases vary greatly depending on the kind of products marketed. For example, the largest farms share of vegetables sold increased from 49 percent in 1959 to 61 percent in 1964; for fruits and nuts, their pare increased from 31 to 46 percent; for poultry and poultry products, from 17 to 35 percent; and dairy products, only from 7 to 11 percent (table 7).

Marketings by the largest farms increased as a proportion of all sales especially rapidly for eggs and potatoes. But the increase is also considerable for many other commodities (app. table 13).

In 1964, more than half of all cattle fattened on grain and concentrates came from farms with sales of \$100,000 or more. The largest farms accounted also for 61 percent of vegetables sold, 58 percent of turkeys raised, 46 percent of acreage in Irish potatoes, 37 percent of acreage in rice, 32 percent of land in orchards, and 30 percent of acreage in sugarbeets. Their share in other farm products was much smaller. The largest farms accounted for only 4 percent of hogs and pigs sold, 6



Table 5. -- Percentage distribution of number and sales of farms, by specified value of sales, by type of farms and by geographic regions, 1964

Total	'	Farms with sales of Sidu , UUU				••			raims with sales of Si,000,000 of more
North South West Actions North South	a	Total	Regiona	distri farms	bution	Total	Regio	of farms	ibution
No. Pet. P		25	North	South	West	ratms	North	South	West
1,40 30.8 32.9 36.3 919 18.1 24.9 18.1 24.9 18.1 24.9 18.1 24.9 18.1 24.9 18.1 24.9 18.1 24.9 18.1 24.9 2.1		8	Pct.	Pct.	Pct.	No.	Pct.	Pct.	Pct.
2,141 19.1 50.7 30.2 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	All farms	31,401	30.8	32.9	36.3	916	18.1	24.9	57.0
100.0 1.	Cash-grain	2,141	19.1	50.7	30.2	5		} { !	100.00
ranches) 1,590 15.0 24.5 15.9 15.9 15.9 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	Tobacco	102	39.2	80.8	1 00	11	100.0	-	100
ranches)	Other field cross	2,737	5.57	17.7	70.3 70.3	p 89	7.4	13.2	79.7
er than poultry and dairy 2,511 12.2 30.0 57.8 99 1.11 58.1 2,576 47,70 20.4 89 21.3 42.7 2,576 1.9 26.1 62.0 19 10.5 36.9 ranches) 6,682 70.9 11.0 18.1 322 37.1 15.8 1,884 9.2 28.4 62.4 53 48.7 1,884 9.2 28.4 62.4 53 48.7 1,884 9.2 28.4 62.4 53 1,644 45.3 12.7 12.7 1,644 45.3 12.7 12.7 1,644 45.3 12.7 12.7 1,644 45.3 12.7 12.7 1,644 45.3 12.7 12.7 1,644 45.3 12.7 1,644 45.3 12.7 1,644 45.3 12.8 1,644 12.7 12.7 1,109 9.7 27.8 62.4 1,109 1,109 12.7 1,109 1,109 13.7 1,109 1,109 13.7 1,109 1,109 13.7 1,109 1,109 13.7 1,109 1,109 13.7 1,109 1,109 13.7 1,100 1,109 13.7 1,100 1,109 13.7 1,100 1,109 13.7 1,100 1,100 13.7 1,100 1,100 13.7 1,100 1,100 13.1	Vegetable	1,590	15.0	24.5	60.5	76	2.1	33.0	6.49
er than poultry and dairy 4,744 32.6 47.0 20.4 89 21.3 42.7 er than poultry and dairy 6,692 70.9 11.0 18.1 322 31 15.8 1 1,644 45.3 27.4 27.3 48 43.7 27.1 Sale, Regions' Histribution Sales Regional distribution Sales Mult. Mult. Mult. Mult. Mult. Mult. Sales	Fruit and nut	2,511	12.2	30.0	57.8	93	1.1	58.1	8.04
er than poultry and dairy	Poultry	7777	32.6	7.0	20.4	83	21.3	42.7	36.0
er than poulity and dairy ranches) 1,815 10.6 31.4 58.0 81 6.2 24.7 1,815 10.6 31.4 58.0 81 6.2 24.7 3.8 3.8 48.4 43.7 27.1 27.1 27.1 27.1 27.1 27.1 37.1 27.1 37.1 27.1 37.1 37.1 37.1 37.1 37.1 37.1 37.1 3	Datry	2,576	11.9	26.1	62.0	19	5.01	36.9	52.6
rancoes) 1,884 9,2 1,884 9,2 1,884 9,2 1,884 9,2 1,884 9,2 1,884 9,2 1,884 1,884 1,881 1,884 1,884 1,881 1,884 1,881 1,884 1,	Livestock farms (other than poultry and dairy :	60	ç	:		ccc	;		
1,884 9.2 21.4 62.4 53 2.8 43.7 27.1 1,644 45.3 27.4 27.3 48 43.7 27.1 1,644 45.3 27.4 27.3 48 43.7 27.1 2ales Regione' Histribution Sales Regional distribution Sales Sal		2,00,0	6.0	3.1.	100.0	322	3. T	5.0	73.1
1,644 45.3 27.4 27.3 48 43.7 27.1 Sales Sales Regione' Histribution Sales Regional distribution Sales Regional distribution Sales Sales Of Sales Will	General General	1,884	9.5	28.4	50.0	23	7:0	3.8	96.2
Mail	Miscellaneous	1,644	45.3	27.4	27.3	87	43.7	27.1	29.2
Mil. Pet.	· ·	101-3	Regione	Hstri	bution	10103	Regio	maī distr	button
MII. Pet. Pet. Pet. Pet. Pet. dol. Pet. Pet. Pet. Pet. Pet. Pet. 8.539 24.9 29.8 45.3 2,367 15.1 23.0 44 77.2 22.8 — 24 100.0 — 76 0.9 57.1 42.0 111 — 4.4 75 28.6 17.1 54.3 208 3.8 15.2 633 28.6 17.1 54.3 208 3.8 15.2 75 7.5 42.0 50.5 215 1/ 1/ 75 7.5 42.0 50.5 215 1/ 1/ 75 7.5 42.0 50.5 215 1/ 1/ 8 7.5 42.0 50.5 215 1/ 1/ 8 7.2 27.8 62.5 38 1/ 1/ 8 7.2 22.3 49.7 13.2 37.1 94.8 2.9 18.0 8 65 7.2 26.5 66.3 278 2.9 1/ 8 66 7 7 44.2 26.9 28	• ••	Pare		sales		sarec :		of sales	;
dol. Pet. Pet. dol. Pet. Pet. dol. Pet. 8,539 24,9 29.8 45.3 2,367 15.1 23.0 44 77.2 22.8 24 100.0 762 0.9 57.1 42.0 111 4.4 754 7.5 28.4 62.4 195 11 754 7.5 28.4 62.4 195 1/2 754 7.5 24.0 50.5 215 1/2 754 7.5 24.0 50.5 215 1/2 754 7.5 24.0 50.5 215 1/2 754 7.5 24.0 50.5 215 1/2 754 7.5 24.0 50.5 215 1/2 754 7.5 24.0 50.5 215 1/2 754 7.5 24.0 50.5 215 1/2 754 7.5 24.0 50.5 215 1/2 755 7.2 24.0 50.5 215 1/2 756 14.4 1/2 757 13.2 37.1 94.8 26.6 14.4 758 72 26.5 66.3 278 2.9 18.0 758 759 24.0 24.0 759 74.0 74.0 74.0 750 74.0 74.0 74.0 750 74.0 74.0 74.0 750 74.0 74.0 750 74.0 74.0 750 74.0 74.0 750 74.0 74.0 750 74.0 74.0 750 74.0 74.0 750 750 750 750 750	•••	M. 1.				M1.			
8,539 24,9 29,8 45,3 2,367 15,1 23.0 44 77,2 22,8 — 24 100.0 — 762 0.9 57,1 42,0 111 — 4,4 762 0.9 57,1 42,0 111 — 4,4 754 575 52,2 28,4 62,4 195 1/ 1/ 754 7,5 42,0 50.5 215 1/ 1/ 1/ 8 7,5 42,0 50.5 215 1/ 1/ 1/ 8 7,5 42,0 50.5 215 1/ 1/ 1/ 109 29,0 46,5 24,1 16,6 16,3 45,9 1109 29,0 46,5 24,1 16,6 16,3 45,9 1109 29,7 13,2 38 1/ 1/ 12,23 49,7 13,2 37,1 94,8 2.9 18,0 100 480 6,1 19,0 74,9 106 1/ 11 44,2 26,9 28,9 71 44,4,4 24,0	•	401.	Pct.	Pct.	Pct.	dol.	Pot.	Pct.	Pct,
352 16.0 48.4 35.6 7 1 44 77.2 22.8 24 100.0 4.4 762 0.9 57.1 54.3 208 3.8 15.2 633 28.6 17.1 54.3 208 3.8 15.2 754 7.5 42.0 50.5 215 1/ 1/ 754 7.5 42.0 50.5 215 1/ 1/ 754 7.5 42.0 50.5 215 1/ 1/ 754 7.5 42.0 50.5 215 1/ 45.9 8 7.5 42.0 50.5 215 1/ 45.9 109 29.0 46.5 24.1 16.6 16.3 45.9 1109 29.7 13.2 37.1 94.8 26.6 14.4 1109 29.7 13.2 37.1 94.8 2.9 18.0 1109 20.5 66.3 27.8 2.9 18.0 110 44.2 26.9 28.9 71 44.4 24.0	Ail father	8,539	24.9	8.62	45.3	2,367	15.1	23.0	61.9
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Cash-grain	352	16.0	7.87	35.6	7	-		100.0
762 0.9 57.1 42.0 111 4.5 633 28.6 17.1 54.3 208 3.8 15.2 75 5.2 28.6 17.1 54.3 208 3.8 15.2 1,109 29.0 46.5 24.1 16.5 1/5.9 1,109 29.0 46.5 24.1 16.3 45.9 1,109 29.0 46.5 24.1 16.3 45.9 1,109 29.0 46.5 24.1 16.3 45.9 1,109 29.0 46.5 24.1 16.5 16.3 17.4 1,109 29.7 13.2 37.1 94.8 26.6 14.4 1,109 29.7 13.2 57.1 94.8 26.6 14.4 1,109 20.9 28.9 71 44.4 24.0 1,109 20.9 28.9 71 44.4 24.0	Tobacco	7 .	77.2	22.8	1 9	24	100.0	·	1 ;
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Votton Carl Services	79/	0.9	57.1	0.24	111	^	7. 4.	9.55
er than poultry and dairy: 754 7.5 42.0 50.5 215 1 1 1 1 109 29.0 46.9 24.1 166 16.3 45.9 er than poultry and dairy: 2.223 49.7 13.2 37.1 948 26.6 14.4 ranches): 655 7.2 26.5 66.3 278 278 29.9 18.0 44.2 26.9 28.9 71 44.4 24.0	Vecetable	57.5	2.2	78.7	4. 79	195	2:5	7: (1	64.1
er than poultry and dairy : 530 9.7 27.8 62.5 38 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/	Fruit and nut.	754	רי	42.0	50.5	215	1/1	îi-	34.2
er than poultry and dairy : 2,223 49.7 13.2 37.1 948 26.6 14.4 14.4 14.2 44.2 26.9 28.9 7.1 44.4 24.0	Poultry	1,109	29.0	5.94	24.1	166	16.3	45.9	37.8
er than poultry and dairy: . 2,223		230	7.6	27.8	62.5	38	٦,	77	7/
ranches)			ŗ	•		o o	Š	;	6
7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 10.5 $10.$		2,223	7.67	13.2	57.1	948	26.6	14.4	0.65
422 44.2 26.9 28.9 71 44.4 24.0	Livestock ranches	669	7°7	19.0	5.00	106	۶.۶ ۱	10.0	1.6/
••	Macellaneous	422	44.2	26.9	28.9	71	7.77	24.0	31.6
				!					

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if Data withheld to avoid disclosure of operations.

Source: Data derived from a special tabulation of the 1964 Census of Agriculture made available by Bur. of Census.



Table 6.--Number and sales of farms, by specified value of sales, and their percentage of commercial farms, by type of farm and by geographic region, 1964

		North			South			West	
Type of farm	All commercial farms	Farms with sales of \$100,000 or more as a percentage of all commercial farms	Farms with sale of 51,000,000 or more as a percentage of all commercal farms	A)l commercial farms	Farms with sales of \$100,000 or more as a percentage of all commercial farms	Farms with sales of S1,000,000 or more as a percentage of all commer-cial farms	All commercial farms	Farms with sales of \$100,000 or more as a perceutage of all commercial farms	Farms with Sales of \$1,000,000 or more as a percent-commer commer cial farms
All commercial farms	ķ	Pet.	!!	縇	Pct.	Pct.	<u>\</u>	Pet.	Pct.
Cash-grain	309,860	0.1	}	66,433	1.6	;	27,955	2.3	1/
Tobacco	3,221	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	0.3	168,163	ÌΓ	7	i	1	,
Orber field	400	1.3	! -	154,336	 	≓ı[6,256	15.7	2.0
Vegetables	9,005	2.0	1,1	9,137	4 4	0.0	5,065	0.61	2.7
Fruit and nut	12,236	5.5	il-	12,595	0.9	0.4	32,425	4.5	0.1
Poultry	28,884	5.3	1.0	866,97	4.7	0.1	6,238	15.6	0.5
Datry	: 286,765	0.1	71	57,982	1.2	71	22,220	7.2	1/
Kanches	6,377	3.0	0.1	34,573	1.7	0.1	25,332	4.2	0.2
Other Muestock;	342,499	7.1	- ;	133,445	0.5	7	38,585	3.1	0.4
Ceneral	078 86	0.2	}	78,779	9.0	ات	24.361	7.8	0.2
Miscellaneous	27,920	2.7	0.1	39,219	1.1	۲,	11,389	3.9	0.1
		Sales as a	A Dercentage	"	Sales as a	a nercentage		Sales as a percentage	percent yes
•	Sales		of all commercial	Salvs	諨	of all commercial	Sales	of ali con	ali commercial
		farm sales	sales		íarm sales	sales		farm sales	ales
••	Mt 1. dol.	Pct.	Pet.	Mil. dol.	Pct.	Pct.	Mil. dol.	Pet.	Pct.
All commercial farms:			ł		1	ł		}	1
Cash-erain	3,882	1.4	1	1,010	16.9	;	617	20.5	1.2
Tobacco	87	71.0	49.7	1,071	6.0] ;		1	
Cotton, etc. 14 cases	7 00	10.7	1 -	1,903	22.9	7.0	707	68.6	22.8
Vecetable	176	30.) c	223	71.5	2.0	197	79.1	7.76
Fruit and nut	235	24.1	27	477	66.5	171	904	42.1	8.2
Poultry	906 :	35.5	3.0	1,596	32.6	8.7	417	64.2	15.1
Datry	3,629	1.4	71	106	15.0	12	745	7.77	2/
Kenches	133	35.6	6.1	470	36.9	10.6	908	53.8	27.2
Other Hwestock	6,034	18.3	4.2	1,001	29.4	13.6	1,260	65.5	44.4
General	1,065	2.7	13	835	10.9	اً ا	721	49.9	15
Miscellaneour,	797	40.04	ф ж	258	1.47	9. 9	228	53.4	8.6
30 0 - 44: 16									

1/ less than 0.05 percent. 7/ Data withheld to avoid disclosure of operations.

Source: 1964 Census of Agriculture, Vol. II, Ch. 10, table II, and derived from a special tabulation of the 1964 Census of Agriculture made available by Bur. of Census.



Table 7.--Value of products sold by farms with sales of \$100,000 or more, and percentage their sales are of all farm sales, by source of sales, 1959 and 1964

: : : : Farm products sold by source	Value	of sales	Percenta farm	ge of all sales
	1959	: 1964	1959	1964
:	Million dollars	Million dollars	Percent	Percent
Farm products	4,981	<u>1</u> /8,533	16.3	24.2
Crops	2,386	4,007	17.7	24.4
Field crops other than vegetable, : fruits, and nuts	1,261	2,255	12.0	17.5
Vegetables	371	601	48.9	60.9
Fruits and nuts	438	755	31.0	45.7
Forest products and horticultural specialty products	316	386	38.4	43.9
Livestock and poultry and their :				
products	2,595	4,526	15.1	24.0
Poultry and poultry products:	396	1,082	16.8	35.3
Pairy products	297	487	7.4	10.5
Livestock and livestock products :				
other than poultry and dairy	1,902	2,957	17.6	26.5

^{1/} Does not include income from recreation facilities.

Source: 1964 Census of Agriculture, Vol. I, Ch. 6, table 15.

percent of milk cows on the farm, 3 percent of the acreage in corn harvested for grain, and 7 percent of the acreage of soybeans harvested (table 8).

In 1964, farms with sales of \$1 million or more accounted for more than 27 percent of all fartened cattle sold and 21 percent of all vegetables sold. These farms were much less important for other farm products. However, they all reported a large amount of production. Of top-scale farms, 426 sold annually an average 12,000 head of fattened cattle.



Table 8.---Sales, production, or acres harvested on farms with sales of \$100,000 or more, by specified size as

			Perce	Percentage of all farms	farms	
Specified products	Unit :	Total \$100,000 or more	\$1,000,000 or more	-000°06\$	\$200,000- \$499,999	\$100,000- \$199,999
		Percent	Percent	Percent	Percent	Percent
Livestock:	•		9.2	2.7	4.8	4.9
Cattle and calves	Head Bold	51.5	27.2	5.9	7.8	9.8
	*Op	20.4	7.6	3.0	5.3	0.5
Calves fattened on graff	dead on facts	6.5	7.0	9.0	1.9	3.0
Milk cows	יייי ייייייייייייייייייייייייייייייייי	21.4	7.4	2.4	6.4	6.7
	Head sold	4.1	0.2	0.2	1:1	2.6
Noge and pixs	. op	25.4	6.1	3.1	8.9	4.6
Poultry:			<i>o</i> ′	90	4.7	8.6
Broilers and other meat-type chickens.:	Number sold	7.77		90	10.2	10.7
Hens and roosters for slaughter	*op	20.00	7 00	6.9	18.2	24.9
Turkeys	Number raised	0.70	2			
Specified crops:			0.1	0.2	0.7	2.1
Corn for gradu	Acres narvested		7 7	9.0	1.7	3,3
Corn for silage, fodder and hogged:	do.	2,0	0.0	0.3	1.1	3.0
Wheat	.10.		4 W	2.6	12.3	20.9
Rtce	do.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	٠ « ۱ د	1.3	4.1	9.8
Sorghum for all purposes	do.	0.7		4	2.0	4.6
Sovbeans for beans	•op	1.7	1.0	7 0	2.0	4.5
Soybeans for beans	Bushels harvested	> 4		0.3	1,2	3.9
Peanuts for nuts	Acres harvested			6.0	2.3	2.7
Field seed	. do.	0.47	0 9	5,1	15.1	20.0
Irish potatoes	go.	1.02		3.4	10.8	12.2
Sugarbeets for sugar	do.	25.7	7 7	4.1	13.0	13.8
Sagarbeets for sugar	Tons harvested		10	2 9	13.2	11.4
Vegetables	Sales in dollars	r 40.	2.6		16.0	12.5
Vegetables	: Acres harvested	6.09	7.77	7.7	9	10.1
and in orchards	: Acres planted	31.8	٠.	4 OF	6.0	14.7
Nirgery and greenhouse products	: Sales in dollars	52.6	, v.	0.6	4 6	9.51 9.51
	: Bales harvested	29.9			5.0	6.0
Tobacco	: Founds harvested	6.7		•		

Source: Data detived from special tabulation of the 1964 Census of Agriculture made available by Bur. of Census and from Census of Agriculture, Vol. II, the table 15.



For the 200 topscale farms reporting vegetables sold, the average was 1,500 acres in harvested vegetables. For broilers, the 32 topscale farms sold about 3 million broilers per farm. The 195 topscale farms reporting cotton produced an average 3,400 bales per farm; 48 topscale farms averaged 1,200 milk cows; 67 topscale farms sold 20,000 sheep and lambs; 17 of these farms averaged more than half a million pounds of tobacco; and 188 topscale farms averaged 1,800 acres of orchards (table 9).

Census data show that, in 1964, many of the farms with sales of \$'`0,000 or more produced more than one main product; and had considerable sideline production. 6/ But, however large in absolute terms, this sideline production represented only a small fraction of the total production of these farms. As shown below, the 31,401 largest larms are highly specialized in their production.

Specialization of roduction

The degree of specialization of production was measured by the percentage that production of the main product or products was of total production. It is evident that production is highly specialized for all sizes of farms. However, the degree of specialization increases with the size of farm, except for tobacco, cotton, regetable, and dairy farms. In 1964, sales of the main products accounted for more than 90 percent of total farm sales by most of the largest farm. The lower degree of specialization on cotton and especially tobacco farms is due mainly to the acreage allotment regulations for these two arcps and to their more exclusive Census classification. In 1964, sales of dairy products by the largest dairy farms amounted to only 86.6 percent of total farm sales by these farms. However, if sales of calves-which probably should be considered one of the main products of dairy farms are added, the percentage rises above the 90-percent mark. The apparently lower degree of specialization on vegetable farms is because many of these farms (especially in California) grow potatoes, sugarheers, and a few other field crops not classified by Census as vegetables (table 10).

PRODUCTION RESOURCES ON THE LARGEST FARMS

The largest farms are becoming economically more important not only through their increasing commercial production, but also through the increasing value of their production expenditures, their greater use of hired labor, by the increasing acreage they operate, and by the increasing value of their farm equipment. These increases also mean, or course, that their net production increase, in a value-edged sense, is less than their gross sales would suggest.

Purchased Inputs

In 1959, the largest farms accounted for 16 jercent of all feed bought by farmers, and in 1964, this proportion is creased to 29 percent. For the same period, purchases of livestock and poultry increased from 28 to 39 percent, purchased seed from 15 to 17 percent, purchased fuel and oil from 8 to 11 percent, expenses for machine hire from 15 to 24 percent, and expenses for hired labor from 30 to 40 percent (table 11).

^{6/ 1964} Census of Agriculture, Vol. II, Ch. 6, p. 609.



Spenified product	Unite	rarms reporting	Average per farm reporting	Total by farms reporting	Total as percentage of total for all farms
Livestock and poultry sold alive or on farms		Number	Units 1/	Units 1/	Percent
Livestock:					,
Cattle and calves	Head sold	; 560	10,297	5,766,549	9.5
Cattle fattened on grain	do.	: 426	12,019	5,120,146	27.2
Calves fattened on grain	do.	54	4.801	259,233	9.7
Milk cows.	Head on farm	. 48	1,225	58,804	7.0
Steers and bulls	do.	: 542	3,989	2,161,789	7.4
Horse and of or	Tead sold	: 72	2,058	148,153	0.2
	do.	£9 :	19,981	1,338,739	6.1
Poultry:		•			
Broilers and other meat-type chickens:	Number sold	: :	2,922,213	93,51,811	6*1/
Hens and rooster for slaughrey	do.	: 83	105,638	8,767,981	4.3
Tul`evs	Number raised	: 32	253,966	8,126,906	7.8
Specified crops:					
Corn for grain.	Acres harvested	98 	538	43,057	0.1
Corn for silzge, folder and hogged	do.	: 133	767	39,146	7.0
Wheat.	do.	: 123	209	74,603	0.2
Rtce	305	21	1,302	27,345	1.5
Sorohum for all purposes	do.	154	17,1	H 19.	65
Sovbeans for beans	do.	: 28	998	24,249	0.1
Sovbeans for beans,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Bushels harvested	: 28	20,541	575,139	0.1
Peanuts for nuts	Acres harvested	. 5	35.7	1,784	0.1
Irish potatues	do.	: 73	965	70,465	0.9
Sugarbeets for sugar	do.	: 106	097	48,782	3.5
Sugarbeets for sugar,	Tors harvested	: 106	6,582	1,015,662	4.4
Vegut ab les.	Acres harvested	: 200	1,050,898	210,179,545	21.3
Vegetables	Sales in dollars	200	1,543	308,693	9.2
Land in orchards	Acres planted	: 188	1,787	335,969	7.9
Nursery and greenhouse products	Sales in dollars	69 :	961,184	66,321,722	7.6
	Rales harvested	: 195	3,377	658,442	4.5
Tobacco	Pounds harvested	: 17	552,505	9,392,595	0.5
•					

Source: Data derived from : special tabulation of the 1964 Census of Agriculture made available by Bur, of Census,



Table 10.--Sales of the main product or group of products as a percentage of total sales, by type and size of farm, 1964

		of main product or rcentage of total		
Type of farm	The largest farms 2/	: Large farms 2/ :	Medium-sized farms 2/	Smail farms 2/
	Percent	Percent	Percent	Percent
Cash-grain	: : 91.1	£4.2	81.5	85.9
Tobacco,	31.4	73.9	80.2	83.5
Cotton	: 69.9	74.7	77.3	83.8
Other field crops	93.8	1.3	87.9	87.0
Vegeta) es 3/	: 84.9	31.7	80.9	80.4
Fruit and nut	94.4	14.2	9 - 1	93.0
Poultry	95.6	12.4	89.8	83.7
Dairy 4/	86.6	77.	74.0	70.4
Other livestock farms and ranches	•	82.0	77.1	85.1



 $[\]frac{1}{2}$ / Indian reservations, institutional farms, and other special farms are not included. $\frac{2}{2}$ / Farm sizes are measured as follows: The largest-sales of \$100,000 or more; large--\$20,000 through \$99,999; medium--\$5,000 through \$19,999; and small--less than \$5,000.

^{3/} The lower percentage is because many farms (especially in California) grow potatoes, sugarbeets, and other field crops not classified by Cersus as vegetables.

4' If the sale of calves is added, the percentage would be over 90 percent.

Source: Derived from 1964 Census of Agriculture, Vol. 11, Ch. 10, tables 9-18 and Vol. II, Jh. 5, table 15.

Table 11.—Specified purchased inputs on farms with sales of \$100,000 or more, and as a percentage of rocal for all farms, by specified size, 1959 and 1964 $\underline{1}/$

	1959 far	1959 purchased inputs farms with sales of \$100,000 or more	Inputs on les of more	1964 p	1964 purchased inputs farms with sales of \$100,000 or more	nputs on es of more	1964 purc of \$100,0	1964 purchased inputs on farms with sales of \$100,000 or more, by rpecified size, as a percentage of total for all farms	its on farms with sa e, by rpecified size total for all farms	th sales size, as farms
Specified purchased inputs	Total	Average per farm	As a per- centage of purchased inputs of all farms	Total	Average per farm	As a per- centage of purchased inputs of all farms	\$1,000,000 or more	.: \$500,000-	. \$200,000- : \$499,959	\$100,000- \$199,999
	Million	Dollars	Percent	Million dollars	Dollars	Percent	Percent	Percent	Percent	Percent
Feed for Ilvescock and pouttry.	737	36.889	15.5	1,576	50,189	28,7	8.7	3.6	7.3	0.6
Purchase of 13 bestock and poultry.	1,095	54,808	28.4	1,616	51,463	38.8	16.1	9.4	8,0	10.0
Machine hire	118	906.5	14.7	208	6,624	23.9	5.4	3.3	7.6	7.6
Hired Labor	. 789	39,491	30.1	1,123	35,763	9.04	10.9	5.7	11.4	12.1
Seeds, bulbs, plants and :	73	3,654	14.8	110	3,503	16.7	2.4	2.1	5.4	6.7
Fertilizer	102	5,105	8.5	276	8,790	15.6	3.4	1.8	4.3	6.9
Casoline and other pe- troleum oil and fuel	116	5,806	7.5	194	6,178	10.9	1.6	1,1	3.2	5.0
Total	3,030	151,659	19.9	5,103	162,510	29.0	9.2	3.7	7.4	8.9

1/ Indian reservations, institutional farms, and other special farms are not included.

Source: 1959 Census of Apriculture, Vol. V. Part 7, table 6; 1964 Census of Apriculture, Vol. II, Ch. 6, table 16; and a special tabulation of the 1964 Census of Apriculture made available by bur. of Census.



A large proportion of purchased inputs are made on farms with sales of \$1 million or more. In 1964, these topscale farms accounted for 9 percent of all purchased feed, 16 percent of the value of all livestock and poultry bought alive, 11 percent of the hired labor wage bill, and 5 percent of all expenses for machine hire. Proportions of other purchased inputs by these farms were much smaller (table 11).

The value of purchased inputs as a proportion of gross sales of farm products is directly related to size of farm. In 1964, on medium-sized farms the value of specified purchased inputs amounted to 42 percent of the value of all farm products sold, on large farms, 48 percent, and on the largest farms, 60 percent. 7/ The relatively high proportion of purchased inputs by small farms is due to special production conditions on many part-time and part-retirement farms. On farms with sales of \$1 million or more, specified purchased inputs amounted to 68 percent of their total sales. This proportion was mostly due to increasing expenditure for purchased feed, livestock, and hired labor (table 12).

Hired Labor

In 1959, the farms with sales of \$100,000 or more used about 390,000 man-years of hired 1 bor--30 percent of total hired work used on all farms; in 1964, they used 440,000 man-years of hired labor--40 percent of all hired work. Furthermore, the concentration of hired labor on the largest farms and their dependence on that labor increases with size of farm. In 1964, the 919 farms with sales of \$1 million or more accounted for 11 percent of the total hired labor bill on farms. These farms averaged 130 man-years of hired labor per farm. Included in the man-year estimate per farm were 86 regular workers with 150 days or more of work during 1 year (table 13).8/

A classification of all farms by their use of hired labor shows that an overwhelming majority of farms either do not employ hired labor at all or employ very little hired labor. Family labor is responsible for most of total farm production. In 1964, about 50 percent of all farms had no hired labor and accounted for about a fifth of all farm products sold. An additional 38 percent used less than one-half man-years of hired labor and had 30 percent of total farm marketings. Together, these farms without hired labor or with little hired labor constituted 88 percent of all farms and accounted for 50 percent of all farm products sold. However, not all farms used so little hired labor. As shown in table 13, use of hired labor increases directly with the size of firm. Only 2 percent of the largest farms had no hired labor, and accounted for 1 percent of all sales by the largest farms. But 21 percent had more than 15 man-years of hired labor and accounted for 43 percent of all sales by the largest farms (table 14).

^{7/} Specified purchased inputs are feed, livestock and poultry bought alive, machine hire, hired labor, seed, fertilizer, fuel, and oil. 8/ For the number of regular workers (working 150 days or more during one year) see table 28.



Table 12.--Specified purchased inputs as a percentage of total farm sales by size of farm, 1964

				Size of	Size of farm in value of sales	of sales			
I cen			Ine largest	ت ا		Large	: Med*::m	: Small:	;
	Total	\$1,000,000 or more	-000°0358;	\$499,999	\$100,000- \$199,999	\$99,999	: \$5,426- : \$19,399	: 1ess than: : 55,000 :	farms $1/$
				¥			1		
Total firm sales	8,539	2,36,	1,067	2,253	2,852	13,588	10,267	2,754	35,148
				Purchases	as a percentag	percentage of sales		{ 	
			-					-	
	:				Percent-				
Purchased inputs as a percentage of sales:									
Feed for livestock and poultry	: 18.4	20.4	18.4	17.8	17.4	15.6	12.9	17.1	15.6
Livestock	: 17.2	27.5	16.5	12.8	12.4	11.8	8.9	0.6	11.9
Poultry	1.7	6.0	1,6	2.0	2.2	ć	·	,	
Machine hire	2.4	2.0	2.7	σ, ¢	2.3	5.7°	9.7	7.	4.4
٠	: 13.2	12.9	15.0	14.2	11.9	 	7.7	7.0	٠.٠
deeds, outlos, plants, and frees) (·	, 4	7.7	7.7			1.00		5.0
Fuel and oll	2.3	1.2	1.9	2.5	3.1	4.5	.00	10.3	5.1
	5.	68.7	7 09	57.2	5.4.6	2.87	41.6	2/57.0	49.8

1/ indian reservations, institutional farms, and other special farms are not included. $\frac{1}{2}$ The relatively high proportion was due to the special organization of the many part-time and part-retirement units in this group.

Source: Derived from special tabulation o, the 1964 Census of Agriculture made available by Bur. of Census and from Vol. II, Ch. 6, table 15, of the 1964 Census of Agriculture,



Table 13.--Wage bill by size of farm, all farms, 1964

		: Wa	age bill	: : Estimated man-years
Size of farm in value of sales	Farms	: Value	Percentage of all farms	of hired labor per farm <u>1</u> /
All farms	Number 2/ 3,155,679	Million dollars 2/2,770	Percent 100.0	Man-years 0.3
The largest:				
\$1,000,000 or more: \$500,000-\$959,999		30.4 160	11.0 5.8	130.3 39.9
\$200,000-\$459,999 \$100,000-\$159,999	7,760	320 339	11.5 12.2	16.2 6.3
Total	31,401	1,123	40.5	14.1
Large: \$20,000-\$99,999	3.0,411	1,021	36.9	1.1
Medium: \$5,000-\$19,399	971,710	482	17.4	0.2
Small: Less than \$5,000	1,782,157	144	5.2	

^{1/} Man-years estimated by dividing the wage bill by the cost of one year of full time work by a male worker.



²/ Indian reservations, institutional farms, and other special farms are not included.

Source: Data derived from the 1964 Census of Agriculture, Vol. II, Ch. 6, table 15, and from a special tabulation of the 1964 Census of Agriculture made available by Bur. of Census.

Table 14.--Farms and farm sales by size of farm and by man-years of hired labor, 1964

			Percent	age distribu	ution of spe	clfied gro	Percentage distribution of specified groups of farms 1.	s 1/		
Man years of :	All farms 2/	rms 2/	The 1	The largest	Laı	Large	Medium	i um	Sme	Smali
	Number	Sales	Number	Sales	Number	Sales	Number	Sales	Number	Sales
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Persent
None	8.67	19.4	2.1	1.3	15.7	13.6	35.0	32.6	62.9	54.4
Lees than 0.5	38.0	30.5	3.9	2.2	35.4	30.6	50.3	50.4	32.5	42.76
0.5-0.9	6.4	8.3	 	1.9	13.2	12.6	8.5	7.6	1.2	2.3
1.0-1.4	2.6	6.5	5.7	3,3	10.9	11.4	3.5	4.2	0.3	0.5
1.5-2,4	-1 -2	7.3	10.5	6.3	11.3	12.9	0.5	2.5	0,1	0.2
2.5-4.9	1.5	8.2	20.7	13.7	9,1	12.0	9.0	0.8	3/	37
5.0-6,9	7.0	3.3	11.2	8.2	2.2	3.3	0.1	0.1	3/	3/
7,0-9,9	0.3	2.9	53.6	8.8	1.2	2.0	3/	3/	3/	3/
10.0-14.9	0.2	3.0	11.0	10.9	9.0	1.1	હો	7	रें	(3)
15.0 and over	9.2	10.6	20.8	43.4	6.2	0.5	3/	<u>8</u>	3/	/3
All farms	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

1/ Farm sizes are mensured as follows: The largest--sales of \$100,000 or more; large--\$20,000 through \$99,999; medium--\$5,000 through \$99,999; and small--less than \$5,000,
2/ Indian reservations, institutional farms, and other special farms are not included.
3/ Lass than 0.05 percent.

Source: Data derived from a special tabulation of the 1964 Census of Agriculture made available by Bur. of Census.



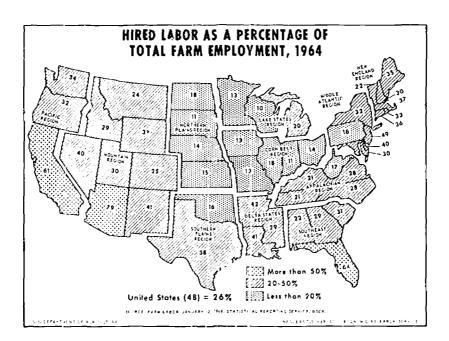


Figure 2

The greater use of hired labor on the largest farms accounts for, to a great extent, the differences between States in the number of workers hired. States where the largest farms were dominant were also States with greater proportions of hired labor on farms (fig. 2). For example, in Arizona, California, and Florida, the largest farms accounted for 78 percent, 69 percent, and 69 percent of all farm products sold. The States' proportions of hired labor employment on farms were 81 percent, 64 percent, and 69 percent. In the Corn Belt and Lake States regions, where the economic importance of the largest farms was quite mcdest, the proportion of hired labor employment on farms was, on the average, below 15 percent (fig. 2).9/

Farmland and Acreage Size

From 1959 to 1964, acreage of farmland increased noticeably on farms with sales of \$20,000 or more (table 15). The increase, however, is due more to the expanding number of these farms than to an increase in their acreage. This explanation is reflected in the decreasing average acreage per farm. This decrease is reflected also in the fact that production on

^{9/} For a more comprehensive report on farm labor, see W.L. Sellers and T.E. Eichers, "Farm Labor Inputs," USDA, ERS, Statis. Bul. No. 438, June 1969.



Table 15. -- Acreage and use of land, by size of tarm, and as a percentage of total for all farms, 1959 and 1964

•		Farmland 2/	rd <u>2</u> /			Acrea	re or farm	land by spe	Acreage of farmland by specified uses	
Size of farm in value of sales 1/	: Acreape 3/	se 3/	Acres p	Acres per farm	Cropland	land	Woodland	land	Pastureland except cropland and woodland 4/	nd except woodland 4/
	1959	1964	1959	1964	1959	1964	1959	1967	1959	1967
	Million acres	Million acres	Acres	Acres	Million	Million acres	Million	Million acres	Million acres	Million acres
The largest	11.4	121	5,686	3,854	21	29	و ۶۲	8	80	80
Wedium. Small 5/	402	375 230	355	386 159	205 109	166 80	49 71	42 61	131	137
All farms	: 1,080	1,061	292	336	877	396	154	137	434	452
				Per	centage of	Percentage of total for all farms	all farms	.,		
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
The largest	28.2 37.2	11.4 31.6 35.3			4.7 25.1 46.0	7.3 30.6 41.9	5.9 16.2 31.8	5.8 19.0 30.7	18.4 36.6 30.2	17.7 35.8 30.3
All farms	100.0	100.0			100.0	100.0	100.001	100.0	100.0	100.0

1/ Farm sizes are measured as follows: The largest--sales of \$100,000 or more; large--\$20,000 through \$99,999; medium--\$5,000 through \$19,999; and small--less than \$5,000.

2/ Indian reservations, institutional and other special farms are not included.
3/ Acreape for farmland usage does not add to total acreage. The difference is accounted for by acres in houses, lots, roads, a.d wasteland, which are not included.
4/ Mostly grazing land.
5/ Operator households on these farms have, on the average, more nonfarm than farm income.

Source: 1950 Census of Agriculture, Vol. II, Ch. 11, table 5 and Vol. 5, part 7, table 6, and 1964 Census of Agriculture, Vol. II, Ch. 6, tables 15 and 16.

many of the largest farms is increasingly less dependent on the land. Such decreasing dependence is true for farms with cattle feeding, broilers, other meat production, and egg production, as well as for drylot dairy establishments.

Farms with sales of \$100,000 or more accounted for about 10 percent of total farmland in both 1959 and 1964. This proportion increased from 5 to 7 percent for cropland. The percentage did not change for woodland, and decreased slightly for grazing land (table 15).

Not many of the 31,401 largest farms are extremely large in acreage. About 60 percent have less than 1,000 acres, and 3 percent have less than 10 acres (app. table 14). The average acreage of the largest farms ranges from 2,770 to 12,121 acres, depending on their size in value or sales. However, the greater part of their acreage--ranging from about 60 to 70 percent, consists of grazing land; 20 to 28 percent is cropland; and 5 to 10 percent, woodland (table 16).

Farm Equipment

The largest farms do not account for a large percentage of farm equipment. In 1964, they accounted for 5 percent of all motortrucks on farms, 4 percent of all tractors other than garden tractors (but 14 percent of crawler tractors), and 3 percent of field forage harvesters (table 17).

However, merely counting numbers is an incomplete measurement. This kind of measure does not show the importance of such equipment on the largest farms. Their machines and equipment are larger and technically more efficient than those on other farms (table 28).

LAND TENURE ON THE LARGEST FARMS

The pattern of tenure under which farmland is operated—the land tenure—is not changing significantly, but this pattern differs by size of farm. However, the tenure under which farm operators are controlling their land—the tenure of farm operator—is changing more significantly, both over time and by size of farm.

Tenure Under Which Land Is Operated

All the technical and economic changes in farming do not appear to be altering the traditional land tenure pattern. 10/ From 1944 to 1964, the proportion of land operated under ownership, rental, and paid management did not change significantly. Throughout this period, about 55 percent of the land in farms was operated by owners, 35 percent, by renters, and about 10 percent, by paid managers (app. table 15).

On the farms with sales of \$100,000 or more, the land tenure pattern differs slightly--with less land under ownership and more under rental and paid management. A difference in land tenure depending on the size

^{10/} We are speaking here of the tenure under which farmland is operated, disregarding the composition of operating units. For example, in a part-owner farm, part of the land is owned by the operator, and another part is rented.



Tible 16.--Amount and specified use of farmland on rarms with sales of \$100,000 or more, 1964

	:	: :	armland	: : Average	Percen	tage of far	rmland in $1/$
ize of farm in alue of sales	: Farms	: : Amount !		: acreage : per farm :	: Cropland	: Woodland	: Fascureland : except cropland : and woodland 2/
	Number	1,000 acres	Percent	Acres	Perc nt	Percent	Fercent
00,000 or more,000-\$999,999,000-\$499,999	1,574 7,760	11,139 13,162 38,130 58,590	1.0 1.2 3.4 5.3	12,121 8,3°2 4,914 2,770	27.6 19.7 21.1 26.0	4.5 9.8 5.9 7.4	61.8 68.0 70.6 64.4
tal	31,401	121.021	10.9	3,854	23.9	6.9	66.5

[/] Acreage for farmland usage does not add to 100 percent. The difference is accounted for by acres ouses, lots, roads, and wasteland, which are not included. / Mostly grazing land.

Table 17.--Farm equipment on farms with sales of \$100,000 or more as a percentage of specified equipment on all farms, by specified size, 1964

	:	Farms with	sales of \$100	000 or mor	e
faras	: Total	\$1,000,000 cr more			\$100,000- \$199,999
: Thousands	Percent	Percent	Percent	Percent	Percent
3,030	4.8	0.6	0.5	1.3	2.4
4,787	3,8	0.3	0.3	1.1	2.1
: 186	13.8	2.4	1.4	4.2	5.8
4,601	3.4	0.2	0,3	1.0	1.9
: : 910	2.3	0.1	0.1	0.6	1.5
: 690	1.2	NA	NA	NA	NA
: : 751	1.5	NA.	NA	N.A.	NA
: 316	3.4	NA.	ΝA	NA	NA
	: : : : : : : : : : : : : : : : : : :	far.as : Tetal :	All stards Total S1,000,000 or more Thousands Percent Percent	All far.s : Total : \$1,000,000 : \$500,000 - \$999,999 : Fhousands Fercent Fercent Fercent 3,030 4.8 0.6 0.5 4,787 3.8 0.3 0.3 186 13.8 2.4 1.4 4,601 3.4 0.2 0.3 910 2.3 0.1 0.1 690 1.2 NA NA 751 1.5 NA NA	All far.s : Total : \$1,000,000 : \$500,000- : \$200.000- : \$499,999 : \$499,99 : \$499,99 : \$499,99 : \$499,99 : \$499,99 : \$499,99 : \$499,99 : \$499,99 : \$499,99 : \$499,99 : \$499,99 : \$499,99 : \$499,99 :

A = Not available.



ource: Data derived from a special tabulation of the 1964 Census of Agriculture made available by of Census.

outce: Data derived from a special tabulation of the 1964 Census of Arriculture made available by of Census.

of the largest farms is noticeable on farms with sales of \$500,000 to \$999,999. Both the proportions of land under ownership and rental were smaller--46 percent and 30 percent--and the proportion of land under paid management was the largest--24 percent (table 18).

Tenure of Farm Operators

The proportion of farms operated by tenants decreased from 1959 to 1964, and the proportion operated by part owners increased. The proportion operated by full owners and paid managers did not change much. On the largest farms, the percentage operated by full and part owners increased slightly, and the percentage operated by tenants and paid managers decreased slightly.

However, the tenure of farm operators differs greatly by size of farm. In 1964, the pattern of these differences was clearly outlined. The proportion of farms operated by full owners and tenants decreased as the size of farm increased. The proportion of part owners, on the contrary, increased until the size of farm with sales of \$200,000 was reached, but decreased on farms above that size. The proportion of farms under paid management increased from 0.4 percent of all medium-sized farms to 45 percent of all farms with sales of \$1 million or more (table 19). 11/

OPERATORS ON THE LARGEST FARMS

The characteristics of operators on the largest farms differ from those of operators on smaller farms. Operators of the largest farms tend to be less involved in off-farmwork, to rely more on farm income, but a larger proportion of them do not reside on the farm. They do not differ much by age, but have a higher educational at ainment than operators of smaller farms.

Off-Farmwork

The percentage of operators reporting off-farmwork has not changed much in recent years. It was 45 percent in 1959 and 46 percent in 1964. The proportion of operators reporting 200 or more days of off-farmwork increased from 24 to 26 percent during that period. However, the percentage of operators reporting off-farmwork is lower on larger farms. This is especially true for operators reporting 200 or more days of off-farmwork.

In 1964, on medium-sized farms, about 36 percent of all operators reported off-farmwork, and 12 percent reported 200 or more days of such work. On the largest farms, these proportions were 16 and 8 percent (table 20).

Operators' off-farmwork is practically all in nonfarm jobs. A small amount of work was done by farmers on farms other than their own.

^{11/} Because of the special structure of their many residential farms, full owners predominated on small forms. This fact greatly biases their comparability with other farms.



Table 18.--Tenure under which farmland is operated on farms with sales of \$100,000 or more, 1964

:	Total	Percentage o	f farmland	operated under-
Size of farm in value of sales	farmland acreage	: Ownership	: : Rental :	Paid management
: : : : : : : : : : : : : : : : : : :	Million acres		Percent-	
\$100,000 or more	121	49	39	12
\$1,000,000 or more	11	51	36	13
\$500,000-\$999,999	13	45	30	24
\$200,000-\$499,999	38	48	41	11
\$200,000\$199,999	59	50	40	10

Source: Data derived from a special tabulation of the 1964 Census of Agriculture made available by Bur. of Census.

On all sizes of farms, nonfarm jobs accounted for more than 90 percent of total work done by operators outside their farms (table 21).

The percentage of operators reporting off-farm jobs on the lar farms and the time they spent on those jobs differs by State. However in all States, operators on larger farms tend to spend less time of off-farm jobs than do operators on smaller farms. $\underline{12}^{\prime}$

Off-Farm Income

Dependence of the farm population on off-farm income is not a development, but from 1947 to 1967, this dependence increased. Income off-farm sources in the first few years after World War II acceptor about 32 percent of total personal income of the farm population 1967, such income was estimated to have accounted for 42 percent. 1

The importance of income from off-farm sources declines as the of farm increases. Thus, in 1964, on small farms, 89 percent of toperators reported household off-farm income; on medium-sized farms, and the contract of the

^{12/} For more detailed information on the nonfarmwork of operator of farms with sales of \$100,000 or more, see app. talle 16; for of tors of all farms and members of their households, see app. table 1/13/ USDA, ERS, Farm Income Situation 211, July 1968, table 5H, p. 48.



Table 19. -- Percentage distribution of farms by tenure of farm operators for all farms, by size of farm, 1959 and 1964

			Farms with sales of \$100,000 or more	s of \$100,000	or more		Farms	Farms with sales less	less
Teaure of farm	1959			1964			than \$	than \$100,000, 1964 1/	.964 1/
operators	Total	; ; Total ;	\$1,000,000 or more	666, 666\$	\$200,000- \$499,999	\$100,000-	Large	Medium : Small	: Small
					Percent				
Full maners	29.9	30.1	18.8	25.7	29.6	31.1	29.7	9.17	72.5
Part coners	77.77	45.4	30.3	35.6	43.6	47.5	7.97	35.2	14.3
Marage rs	13,1	12.0	6.44	29.1	16.3	7.7	1.6	7.0	e.
Tenants	12.6	12.5	6.0	9.6	10.5	13.7	22.5	22.8	13.0
All farm operators	0.001 :	100.0	100,0	100.0	100.0	100.0	100.0	100.0	100.0
1/ 5mm sizes are measured as follows: The largestsales of \$100,000 or more; large\$20,000 through \$99,999; medium\$5,000	ired as fo	110ws: TF	ne largestsale:	s of \$100,000	or more; large	\$20,000 thro	666,868 ngu	; medium	-\$5,000

Source: Data derived from the 1959 Census of Agriculture, Vol. 5, part 7, table 6; the 1964 Census of Agriculture, Vol. II. Ch. 6, table 15; and from a special tabulation of the 1964 Census of Agriculture made available by Bur. of Census.

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Table 20. --Number and percentage of farm operators reporting specified amount of off-farmwork, by size of farm, 1964

•• ••	Ope	Operators reporting	1g off-farmwork	1.	Operators	
Size of farm in salue of sales 1/ :	1~99 days	100-199 daye	200 days and over	Total days	reporting "none" or not reporting	All operators
			Number	ber		
The largest:	ć	ŗ			r C r	•
\$1,000,000 or more	28 55	1.7 2.8	87	132	1,330	919
\$200,000-\$499,999	359	150	687	1,196	6,564	7,760
_:	1,486	077	1,565	3 491	17,657	21,148
Total	1,928	635	2,500	5,063	26,338	31,401
Large	61,112	10,900	22,450	94,462	275,949	370,411
Medium	182,317	51,375	114,486	348,178	623,532	971,710
Small	203,529	126,064	684,389	1,013,982	768,175	1,782,157
Total 2/	988,875	188,974	823,825	1,461,685	1,693,994	3,155,679
·		Number	r as a percentage	of all	operators	
· '			Pe1	Percent		
The largest: 51 000 000 or more.	3.0	1.9	5	7.71	85.6	0 001
666,6668-000,0058	3.5	8.1	10.2	ः श	84.5	0.001
\$200,000-\$499,999	4.6	1.9	8.9	15.4	84.6	100.0
-:	7.0	2.1	7.4	16.5	83.5	100.0
Total	6.1	2.0	8.0	16.1	83.9	130.0
Large	16.5	2.9	6.1	25.5	74.5	100.0
We d1 um	18.7	5.5	11.8	35.8	64.2	100.0
Small	74	7.1	38.4	56.9	43.1	100.0
Total 2/	14.2	6.0	26.1	6.3	53.7	100.0
1/ Farm sizes are measured as	follows: The	e largestsales	o.	or more; large	\$100,000 or more; large\$20,000 through	; 666, 66\$ hgu
	**************************************		to see a factor of	and the state of the state of the state of the state of		

Census, and from the 1964 Census of Agriculture, Vol. II.



Table ^1.--Amount and percentage distribution of operators off-farmwork on nonfarm jobs, by size of farm, 1964

David	A11	:	Siz2	of farm 2/	
Days worked	farms <u>1</u> /	Larg€st	Large	Medium	Small
			<u>Days</u>		
On another farm	10,357,458	28,343	638,338	2,479,906	7,210,871
At nonfarm jobs	239,450,675	720,135	8,385,713	39,927,779	190,417,048
Total	249,808,133	748,478	9,024,051	42,407,655	197,627,919
			Percent-		
On another farm	4.1	3.8	7.1	5.8	3.6
At nonfarm jobs	95.9	96.2	92.9	94.2	96.4
Totel	100.0	100.0	100.0	100.0	100.0

 $[\]frac{1}{2}$ Indian reservations, institutional farms, and other special farms are not included.

74 percent; on large farms, 67 percent; and on the largest farms, only 57 percent.

Differences in the importance of off-farm income, depending on the size of farm, can be indicated by comparing off-farm income with farm marketings. Off-farm income seems to be by far the main source of livelihood for families living on small farms. This proportion is due mostly to the large number of part-time and part-retirement units among small farms. Off-farm income equalled 23 percent of farm marketings on medium-sized farms, 7 percent on large farms, and less than 2 percent on the largest farms (table 22). The significance of off-farm income, however, is greater than that indicated by its comparison with farm marketings. Usually, off-farm income is more nearly net income than that from sales of farm products.

Sources of off-farm income for all members of operators' households also vary by size of farm. The main sources of off-farm income on mediumand small-sized farms are wages and salaries from nonfarm jobs. Off-farm income on larger farms comes primarily from Government payments, rent of farm and nonfarm property, interest, dividends, and similar sources (app. table 18).14/

 $[\]frac{14}{\text{For more information}}$, see 1964 Census of Agriculture, Vol. 3, part 3, table 6, p. 22.



^{2/} Farm sizes are measured as follows: The largest--\$100,000 or more; large--\$20,000 through \$99,909; medium--\$5,000 through \$19,999; and small--less than \$5,000.

Source: 1964 Census of Agriculture, Vol. II, Ch. 6, tables 15 and 16.

Table 22.--Off-farm income of all persons in farm operator households as a percentage of farm sales, by size of farm, 1964

	Operator i	nouseholds		Off-farm	
Size of farm in value of sales $1/$	Total	Percentage reporting off-farm income	Farm sales	income of	Off-farm income as a percentage of farm sales
	Number	Percent	1,000 dollars	1,000 dollars	Percent
Largest Large Medium Small	370,411 971,710	57.4 67.4 73.8 88.5	8,538,811 13,587,753 10,267,240 2,753,891	146,033 986,305 2,392,922 6,522,434	1.7 7.3 23.3 2/236.8
All farms <u>3</u> /	1	81.2	35,147,695	10,047,694	28.6

¹/ Farm sizes are measured as follows: The largest--\$100,000 or more; large--\$20,000 through \$99,999; medium--\$5,000 through \$19,999; and small--less than \$5,000.

Source: 1964 Census of Agriculture General Report, Vol. II, Ch. 6, tables 15 and 16, pp. 642 and 658.

Off-farm income of operators' households varies by States. For all operators and for operators only on the largest farms, such income generally tends to be smaller in the Middle Atlantic, Lake States, and Corn Belt regions than in the rest of the country and to be largest in the Southern Plains (app. tables 17 and 19).

Residence on Farm

Higher specialization of farm production and greatly extended transportation facilities have increasingly enabled farmers to live away from their farms all or most of the year. The proportion of farmers living on their farms has decreased in recent decades. In 1950, 95 percent of all farm operators lived on farms in 1964, this proportion was 90.5 percent.15/

The proportion of operators residing on farms was lower on larger farms. While this proportion was 76 percent on farms with sales of \$100,000 to \$199,999, it was only 42 percent on farms with sales of \$1 million or more (table 23).

For the largest farms in their individual groups, no data are available by State on the operator's farm residence. But an analysis of the largest farms as a whole shows that the proportion of farmers not residing

^{15/ 1964} Census of Agriculture, Vol. 2, Ch. 5, p. 513.



^{2/} The high off-farm income percentage of farm sales is due to the great number of part-time and residential farms that had only insignificant farm production.

^{3/} Indian reservations, institutional farms, and other special farms are not included.

Table 23.--Operators on farms with sales of \$100,000 or more reporting residence on or off their farms, 1964

Size of farm in value of sales	Operators as residence	to	Operators not	: Coperators reporting residence on farm as percentage
	Not or farm	On farm	reporting	of operators reporting:
	Number	Number	Number	Perce t
\$1,000,000 or more	473	340	106	41.8
\$500,000-\$999,999	7.1	751	112	51.4
\$200,000-\$499,999		4,885	313	65.6
\$100,000-\$199,999	4,866	15,717	565	76.4
Total	8,612	21,693	1,096	71.6
U.S. total	290,971	2,773,815	93,071	90.5

Source: Derived from a special tabulation of the 1964 Census of Agriculture made available by Bur. of Census.

on farms differs greatly by State. For example, in 1964, farmers not residing on their farms accounted for 6 percent of all farm operators in Iowa, 17 percent in California, and more than 24 percent in Florida (fig. 3).

Age of Operator

Exce, t for small farms, no significant difference is found in the age of farm operators by size of farm. In 1964, the average age on small farms was 52 years. This relatively high age is due to the absence of young and middle-aged farmers on these units. More than half the operators on small farms were over 55, and mong these, 360,000 were part-retired, with an average age of 71 years. 16/ The average age for other sizes of farms ranged from 46 on large farms to 49 on farms with sales of \$1 million or more. Farm operators between 35 and 54 accounted for the bulk of farmers on all sizes of farms, except on small units. On the largest farms, the proportions of farmers under 25 and over 55 was somewhat smaller than on medium-sized farms (table 24).

The average age of operators on the largest farms differs slightly by type of farm. In 1964, the age was lowest (46) on the largest cash grain, cotton, and poultry farms and the largest livestock ranches, and highest (50) on the largest fruit, livestock (other than poultry and dairy), and miscellaneous farms (table 25).

^{16/} R. Nikolitch, "A Comparison of Age Levels of Farmers and Other Self-Employed Persons," "ISDA, ERS, Agr. Econ. Rpt. No. 125, Nov. 1967.



Table 24.--Numbur and percentage distribution of farm operators, by age and by size of farm, 1964 1/

Size of farm in value of sales

view of operation			The largest			. Large	: Medfum-	: Small
'	\$1,000,000 or more	-000,0058	\$200,000-	\$100,000- \$99,999	Total	\$20,000- \$99,999	-000°5\$.	: Less than : \$5.000
				Number	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
All farm operators	919	1,574	7,760	21,148	31,401	370,411	971,710	1,782,157
Operators by age:		,			,			
Under 25,	7 ;	5	43	147	197	5,301	19,239	28,433
25-34	09	122	268	2,472	3,422	52,541	109,628	143,390
35-44	243	797	2,308	6,392	9,410	110,546	223,874	309,148
45-54	319	518	2,518	6,623	9.6.6	113,919	294,218	432,525
55-64	226	306	1,466	3,965	5,963	65,816	233,627	436,333
65 and over	67	156	659	1,549	2,431	22,288	91,124	432,278
Average age 2/	67	87	47	17	47	97	87	52
*				Percent	nt			
All form operators	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Operators by age:								
Under 25,	7.0	0.3	0.5	0.7	9.0	1.4	2.0	1.6
25-34	6.5	7.8	6.6	11.7	10.9	14.2	11.3	8.0
35-44	26,5	29.7	29.7	30.2	30.0	29.8	23.0	17.3
45-54	34.7	32.9	32.5	31.3	31.8	30.8	30.3	24.3
55-64	54.6	19.4	18.9	18,8	19.0	17.6	24.0	24.5
65 and over	7.3	6.6	8.5	7.3	7.7	0.9	7.6	24.3

Source: Data derived from the 1964 Census of Agriculture, Vol. II, Ch. 6, table 15 and from a special tabulation of the 1964 Census of Aericulture, made available by Bur. of Census.

Table 25.--Estimated average age of farm operators on farms with sales of \$100,000 or more, by type of farm, 1964

Type of farm	Average age of operator
Cash-grain:	46
Tob ac co	49
Cotton:	46
Other field crops:	47
Vegetable	47
Froit and nut	50
Poultry:	46
Dairy:	47
Livestock ranches	46
Other livestock:	50
General:	47
Miscellaneous:	50
:	

Source: Estimated on the basis of data on distribution of operators by age, 1964 Census of Agriculture, Vol. 2, Ch. 6, table 16, pp. 656 and 657.

The average age of farm operators on farms with sales of \$100,000 or more differs also by State and region. The age is highest in New England, West Virginia, Wyoming, Florida, Montana, and Hawaii, and lowest in the Lake States, Corn Belt, and Northern Plains (fig. 4).17/

Educational Attainment

Farmers' educational attainment seems to be related to farm size. The proportion of operators with education is greatest on smaller farms. In 1964, operators with 8 years of school or less accounted for 56 percent of all operators on small farms, 45 percent on medium-sized farms, and 28 percent on large farms, but only 20 percent on the largest farms. On the other hand, operators with 4 years of college accounted for 4 percent of all operators on both small and medium-sized farms and 7 percent on large farms, but 17 percent on the largest farms (table 26).

In 1964, the average level of schooling for all farmers was 11 years for operators under 35, 10.2 for operators between 35 and 44, 9.4 years for those between 45 and 54, 8.7 for those between 55 and 64, and 8.1 for operators 65 and over. But the fact that younger farmers had more education could not explain that those working on farms above the medium-size had the highest educational attainment. As shown in table 24, operators on larger farms are not younger than those on smaller farms. Neither could a comparison by States, age, and educational attainment of operators on commercial farms explain the difference in educational attainment (app. table 20).

^{17/} For regional differences in average age of operators, see app. table 48.

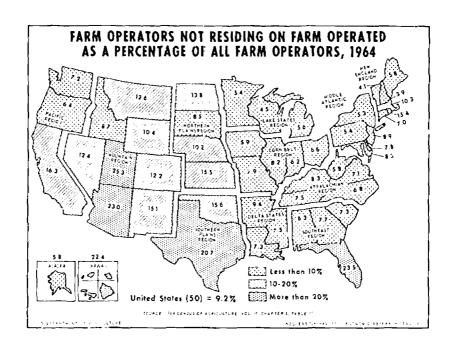


Figure 3

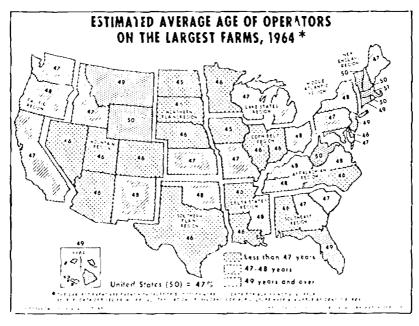


Figure 4



Table 26.--Number and percentage distribution of farm operators of all farms by size of farm and by highest orade of school completed, 1964

					Oper	ators by	Operators by size of farm 2/	farm 2/		
Highest grade of school completed	all farms 1/	1 de la composición della comp	The largest	gest	Large	a.	Medium	5	Small:	
		Por.	Νο.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
All operators	3,155,679	0.001	31,401	100.0	370,411	100.0	971,710	100.0	1,782,157	100.0
Elementary school: 0-4 years	225,130	7.1	867	1.6	5,927	1.6	36,925	3.8	181,780	10.2
5-7 years	465,550	8.71	1,784	5.7	22,965	6.2	103,973	10.7	336,828	18.9
8 years	851,131	26.9	4,123	13.1	73,341	19.8	292,485	30.1	481,182	27.0
High school:										
2-3 years	535,507	17.0	4,541	14.5	62,970	17.0	163,247	8.91	304,749	17.1
	762,110	24.2	10,438	33,2	142,608	38.5	284,711	29.3	324,353	18.2
College:										
]-3 wears	178,833	5.6	4,796	15.3	36,671	6.6	55,387	5.7	81,979	9.7
, years	137,418	4.4	5,221	16.6	25,929	7.0	34,982	3.6	71,286	7.0
Average grade completed	7.6		11,5		10.7		9.7		ა. გ	

1/ Indian reservations, institutional farms, and other special farms are not included.
2/ Farm states are measured as follows: The largest--\$100,000 or more; large--\$20,000 through \$99,999; medium--\$5,000 through \$19,999; and small--less than \$5,000.

Source: Derived from the 1964 Census of Agriculture Vol. II, Ch. 6, tables 15 and 16. Figures on large, medium, and smail farms were adjusted to add to the total number of all operators in each size-group of farms.



FAMILY FARMS

Though the total number of farms was reduced markedly from 1949 to 1964, the proportion that were family farms remained about the same in that period, and their share of marketings changed little. 18/ In 1964, family farms accounted for 95 percent of all farms and 64 percent of the value of all farm products sold. Measured in constant dollars, these proportions were 95 and 69 percent in 1959, and 95 and 63 percent in 1949.

An analysis by size of farm from 1959 to 1964 shows that the proportions of family farms and their marketings increased for all farm sizes, including the largest farms. In 1959, 11 percent of these farms were family farms, accounting for 7 percent of total sales of the largest farms. In 1964, 14.5 percent of the largest farms were family farms, accounting for 8.4 percent of total sales by the largest farms.

The proportions of the number and sales of family-operated farms did not change significantly on small-sized farms. Large family farms expanded considerably from 1959 to 1964 (table 27).

The economic importance of family farms varies greatly by State and region. Family farms are most dominant in the North Central part of the country, as well as in some of the Middle Atlantic and South Central States. In California, Texas, Florida, and a few other States, on the contrary, family farms provide less than half of total farm sales (app. table 21).

The importance of family farms among the largest farms also varies greatly by State. This pattern generally follows the pattern of State and regional differences for all family-operated farms (see app. table 21). Thus, in Iowa, where family-operated units accounted for 91 percent of all farm marketings in 1964, family-operated farms provided more than 45 percent of total marketings by the largest farms. In California, on the contrary, where family-operated units accounted for only 21 percent of all farm marketings, family-operated units accounted for less than 4 percent of total marketings by the largest farms (fig. 5).

Rapid increases in farm teel hology have increased the quantity of land and other inputs a man can handle per unit of time. In turn, technological changes have greatly expanded the size of a farm business that can be operated by a family. The economic importance of family-operated units among the largest farms, in the greater part of the United States, indicates the capacity of operators to adjut their family operations to large-scale farming.

^{18/} The essential characteristic of a family farm is not found in the size of its sales, acreage, or capital investment, but in the degree to which productive effort and its reward are vested in the family. The family farm is an agricultural business in which the operator is a risk-taking manager who, with his family, does more than half of the farm work. Statistical information on hired labor is ample and adequate, but very little data is available on operator and family labor. However, the family labor supply on the average farm is estimated to be about 1.5 man-years. To have a convenient working definition, we classify farms not using hired management and using less than 1.5 man-years of hired labor as family farms, and those using more than 1.5 man-years of hired labor or hired management or both as larger-than-family farms.



Table 27.--Number and sales of family farms and larger-than-family farms as a percentage of total for all farms, by size of furm, $\frac{1}{2}1959$ and 1964 $\frac{1}{2}$ /

;		of farms as a tage of total	•	a percentage total
Size of farm 2/	Family farms 3/	Larger-than- family farms 3/		Larger-than- family farms 3/
		Pe r	cent	
1959: : Largest	10.8	89.2	7.0	93.0
Large	68 .0	32.0	60.8	39.2
Medium	95.8	4.2	94.3	5.7
Small	99.7	0.3	99.5	0.5
Total	95.5	4.5	69.6	30.4
1964:				
Largest	14.5	85.5	8.4	91.6
Large	74.8	25.2	67.9	32.1
Medium	97.0	2.0	96.5	3.5
Small	99.8	0.2	99.7	0.3
Tot al	95.1	4.9	64.6	35.4

^{1/} Alaska and Hawaii are not included. Indian reservations, institutional farms, and other special farms are also not included.

2/ Farm sizes are measured as follows: The largest-\$100,000 or more; large-\$20,000 through \$99,999; redium-\$5,00 through \$19,999; and small-less than \$5,000.

3/ For definition, see text, footnote 18.

Source: Data derived from special tabulation of the 1964 Consus of Agriculture made available by Bur. of Census.

EFFICIENCY ON THE LARGEST FARM .

Studies and information are lacking on the cockeric and technical efficiency of the largest farms. However, information from the 1964 Census of Agriculture would suggest a greater technical efficiency on these farms. Thus, we find on the largest farms a greater use of fertilizers, as well as a greater yield of production per an imal and crops per acre (table 28).



Table 28,---Physical efficiency measures on farms, by size of farm, 1964

• ••	• ••		. 	Size of	farm in value	ue of sales	
Physical efficiency measure	Unit	Commercial farms	Total, \$100,000 or more	: \$100,000- : \$199,999	\$200,000- \$499,999	\$500,000- : \$500,000-	\$1,000,000 or more
Cropland harvested per tractor (other than	•••••						
garden tractors)	Acres ;	89	113	110	110	116	142
Corn harvested per cornpicker	. op	80	707	N.A	NA	NA	N.A.
Hay harvested per pickup baler	Tons	170	106	AN.	AN.	NA	NA
Regular bired workers per farm	Number :	п	10	Z.	12	29	98
: Percentage of farms reporting use of:	•• ••						
Commercial fertilizer	Fercent :	75.6	6.77	78.6	77.5	76.2	0.69
Wheel tractors	ep:	83.9	92.9	92.2	93.8	95.2	0.96
Grawler tractors	qo.	5.6	35.8	30.0	44.5	54.2	66.2
	do.	35.6	36.7	40.1	32.0	23.6	18.2
Motortrucks (including pickups)	do.	74.8	95.2	64.5	96.2	97.6	98.3
: Fertilizer used per acre fertilized:	Pounds	306	097	370	877	561	689
: Value of products sold:	•• ••						
Milk and cream per milk cow	Dollars :	328	560	ΝΑ	ΝA	NA	NA
Eggs per chicken 4 months old and over:	op	4.39	5,39	NA	NA	V.	NA
Vegetables per acre	· · op	301	7447	325	360	503	681
Nursety products per acre	· op	ΝΑ	1,635	1,742	1,590	1,729	1,491
	••••		;				
	Bushels:	63	78	A:	AZ.	NA	NA
Soybeans harvested for beans	qo.	23	22	22	2.1	2.2	54
Wheat	. op	25	31	VΥ	NA	NA	NA
Alfalfa harvested for hay or dahydrating:	Tons	2.5	7.7	0.4	9.4	6.7	5.3
Clover and timothy hay	. op	1,5	1.6	1.6	1.6	1.4	2.0
Irish potatoes	Bushels:	317	362	NA	N.	NA	NA
Cotton	Rales :	1.1	1.7	1.5	1.8	1.9	5.6
Sugarbeets	Tons	NA	19.9	19.0	20.4	20.5	20.8

Source: Data derived from special tabulation of the 1964 Census of Apriculture made available by Bur. of Census, and from the 1964 Census of Agriculture, Vol. II, Ch. f., table 15.



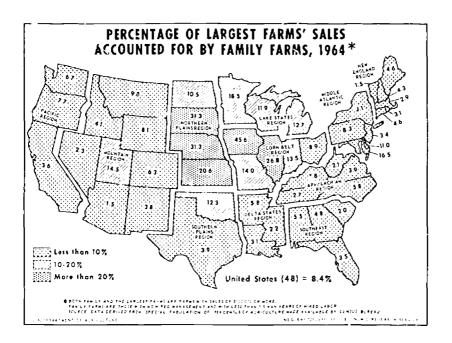


Figure 5

CONCLUSIONS

The information and analysis presented in this report do not fully answer questions raised in the introduction about the future of the largest farms.

However, the information and analysis presented do indicate that large-scale farming has still not extensively penetrated the organization of our farm production. Nonetheless, in some types of production and in some regions, this penetration has been considerable.

As for the future, empirical observation does not indicate any conclusive trend particular to the largest farms. They are increasing in size and number, as do all other adequately sized groups of farms under the impacts of new technological, economic, and social developments.

In the general race toward larger business size, the number of farms with sales of \$100,000 or more probably reached 40,000 in 1969, and their gross sales accounted for at least one-third of total sales by all farms. Such expansion of large-scale farming is believed to be centering in about the same geographic areas, and in the same kinds of crop and livestock production as indicated by data in this report.



APPENDIX

Appendix table 1.--Farm and interfarm sales, and interfarm sales as a percentage of all farm sales, by size of farm, 1964 1/

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	Number of	F.	Farm sales	Inter	Interfarm sales	Interfarm sales as
Size of farm in value of sales	farms	Total	Per farm 2/	Total	Per iarm 2/	A percentage of All farm sales
	Thousands	Million	1,000 dollars	Million dollars	1,000 dollars	Percent
The largest farms: \$1,000,000 or more		2,367	2,576	854	929	36
\$500,000-5999,999	1	1,067	678	280	178	26
5200,600-5499,999	∞	2,253	290	521	67	23
\$100,000-\$199,999	21	2,852	135	979	31	23
Total	31	8,539	272	2,301	73	2.7
LATRE: 542 000-599 999	111	717-9	89	1.368	£ T	21
520,000-539,999	260	7,114	2.7	1,259	\$	18
Medium:				;		;
510,000-519,999	467	6,614 3,653	14	939	7 7	14 13
Small:						
\$2,500-54,999	777	1,611	7	218	17	14
Leas than \$2,500	1,338	1,143	1	287	/4]	25
Abnormal 3/	2	146	67	21	10	15
All farms	3,158	35,294	11	998,9	5	19

1/ Estimated by assuming that of the total value of all feed bought by farmers, 50 percent was accounted for by interfarm sales; of the total value of all seed bought, 53 percent was accounted for by interfarm sales; and 50 percent of all livestock bought by farmers was through interfare trade.

2) Averages computed before figures were rounded. 3) Abnormal farms, and other special farms. $\frac{2}{6}$ Sales less than \$500.

Source: Data derived from the 1964 Gensus of Apriculture, Vol. II. Ch. 6 and from a special tabulation of the 1964 Gensus of Agriculture made available by Bur. of Gensus.



Appendix table 2.--Estimated number and value of all cattle slaughtered and of cattle marketed from feedlots of 1,000 head or more, and estimated value of net agricultural output on feedlots with 1,000 head or more, 1962-64

1	All cattle	cattle slaughtered	Cati	Cattle marketed from feedlots of 1,000 head or more	rom feedlots or more	on 1,000	on feedlors with 1,000 head or more 4/
	Number 1/	Value 2/	Number 3/	Value 2/	Value as a percentage of value of all cattle slaughtered	Value	Value as a percentage of value of all cattle slaughtered
	1,000 head	Million dollars	1,000 he ad	Million dollars	Percent	Million dollars	Percent
1962	26,905	6,181	5,316	1,221	19.8	89.1	7.3
1963	28,604	070*9	5.84^	1,257	20.8	91.8	7.3
1964	31,666	6,341	6 ,740	1,350	20.0	9.86	7.3

Appendix table 3.--Number and sales of farms with sales of \$100,000 or more, specified size, and by geographic region, 1964

4 de		North			South			West		Per farm	Percentage of farms by region	te con
value of sales	Farms	Total sales	Sales per farm	Farms	Total sales	Sales per farm	Farms	Total sales	Sales per farm	North	South	West
	Number	Billion dollars	1,000 dellars	Number	Billion dollars	1,000 dollars	Number	Billion dollars	1,000 dollars		Percent-	
51,000,000 or more	166	7.	2,155.6	229	5.	2,375.4	524	1.5	2,796.3	18	25	57
5500,000-5999,999	365	٤.	668,6	478	е.	7.629	127	5.	681.2	24	30	95
\$200,000-\$499,999	2,043	5.	282.9	2,485	.7	289.6	3,232	1.0	295.6	56	32	42
\$100,000-\$199,999	7,106	6.	133.2	7,129	1.0	134.0	6,913	6.	137.5	33	34	33
Total	9,684	2,1	219.8	10,321	2.5	246.4	11,396	3.9	339.3	33	33	36

Source: Data derived from a special tabulation of the 1964 Census of Agriculture made available by Bur. of Census.

Appindix table 4.-- Average value of farm products sold by farms with sales of \$100,000 or more, by State, 1964

Region and State	Average value of farm products sold	Region and State	Average value of farm products sold
New England:	1,000 dellars	:	1,000 doilars
Maine	178	: South Carolina	150
New Hampshire	197	: Georgia	215
Vermont	185	Florida	907
Massachusetts:	251	: Alabama	199
Rhode Island	198	Delta States:	
Connection	341	Mississippi	202
Middle Atlanti::		Arkansas	189
New York	202	Louisiana	177
New Jersey	212	. Southern Plains.	
Pennsy Ivanía,	214	Oklahoma	300
De laware	225	Texas	248
Mary Lar d	197		
Lake States:		Mountain:	,
Mi chi fo an	180	Montana	212
21.9 constn	217	Idaho,Idaho	281
Monesota	201	Wyoming	195
		Colorado	382
Corn Belt:	7	New Mexico	284
Onto	707	Arizona	436
Indiana	207	Utah	251
'Ilinois	181	Nevada	248
TOWN STATE OF THE	181	: Pacific:	
Missouri	197	Washington	254
Northern Plains:		. Ore gon	224
North Dakof tassesses	195	: California	342
South Dakota,	225	: Alaska	1/
Nebraska	. 304	: Hawaii	1,227
Kansas	. 319		
App alachian.			
Vietnia	220		
	244		
	195		
Kentucky	233		
Tennessee	203		

1/ Data for Alaska included in Washington to avoid disclosure of individual operations.



Appendix table 5.--Number and sales of farms with sales of \$100,000 or more, by specified size and their percentage of total farms in each size group, by type of farm, 1964

					Value	Value of sales				
Type of farm	Total,	\$100,000 more	\$1,000	\$1,000,000 and	\$500	\$500,000- \$999,999	\$200	\$200,000-	\$100	\$100,000-
	Farms	Sales	Farms	Sales	Farms	Sales	Farms	Sales	FATMS	Sales
	Number	Million1/	Numbe r	Million dollars	Number	Million	Number	Million dollars	Number	Million dollars
Cash-grain	2,141	351.6	2	7.4	53	19.0	345	96.5	1,762	228.7
Tobacco	102	44.2	1.1	23.9	. ~	œ. ,3	2.7	7.3	5.2	7.7
Cottem	3,465	762.1	ક્	111.2	112	14.7	847	242.8	2,470	333.4
Other fleld crops	2,237	633.2	8 °	208.0	ຮຸ້	56.5	560	160.3	1,526	208.4
Veyer ab Learning Trust at the soul burn a	1,510	753.7	# C	195.5	8C1 891	113.5	77.1	717 9	1 539	217.5
Poult -7	4,7:4	1,108.8	68	165.8	21.5	153.2	1,212	354.2	3,219	435.6
Dal TV.	2,574	529.7	19	37.5	93	65.2	609	174.2	1,855	252,8
poultry and datry farms										
and Hivestock ranches)	269'9	2,223,5	322	948.2	368	250.9	1,436	413.2	995. 4	611.2
Livestock ranches	1,815	655.3	18	277.7	117	80.0	485	145.0	1,132	152.6
General	1,884	480.1	53	105.6	90 201	59.7 20.6	504	145.9	1,237	168,9
in the second se		1117	o r	0.5	777	0.61		0.241	002	160.7
Total	31,401	8,538.8	916	2,367.0	1,574	1,066.7	7.760	2,252.8	21,148	2,852.3
			Number an	Number and sales as a	percertage	percentage of total farms in each size group	rms in each	size group	i	
Cash-grain	6.8	1.4	0.5	0.3	1.9	8.7	4.4	6.3	8	8.0
Tobacco.	: 0.3	0.5	1.2	1.0	0.4	7.0	0.3	4.0	0.3	0,3
Cotton	11.1	6.8	3.9	4.7	7,1	7.0	10.9	10.8	11.7	11.7
Other fleld crops	: 7.1	7.4	7.7	8° 8	5.3	5.3	7.2	7.1	7.2	7.3
Vegetables	. 5.1	6.7	10.2	ຕໍ່ເ	10.1	10.2	6.7	7.0	3,9	3.9
Poult and authorises	o	x c	10.2	7.6	10.7	7.01	9.2	ب د م	7.3	7.4
2 Jeg		7.5	2.1	9.4	2.4.2	7. v	7.9	7.61	13.2 8	^ a
Livestock (other than	:	1	•	•	1	•	•	•	•	;
poulter, and dainy farms										
and livestock ranches)	: 21,3	26.1	35,0	0.04	23.4	23.5	18,5	18,3	21.6	21.4
Livestock ranches	5.4	7.7	8,8	11.7	7.4	7.5	6.3	4.0	5.3	5.4
General,	0.4	5.6	5.8	4.5	5.7	9.6	6.5	6.5	8.5	6.5.
Marellansous	5.2	5.0	5.2	3.0	7.9	7.5	6.5	6.3	4.6	4.5



Appendix table 6.--Number of farms with sales of \$100,000 or more, and their percentage of all farms, by type of farm, 1929, 1959, and 1964

Type of farm		Number of farms	SW	e sv :	As a percentage of 1959 total	se of	As a perce	percentage of all farms
	1929	1959	1967	1929	1959	1964	1959	1964
	No.	No.	νο.	Pet.	Pct.	Pet.	Pot.	Pct.
Cash-grain,	100	1,179	2,141	œ	100	182	0.3	7.0
Tobacco	24	. 68	102	79	100	150	1/	1/
Cotton	102	2,990	3,465	3	100	116	7.7	1.7
Other fleld crops	142	888	2,237	16	100	252	2.3	5.4
Veget ab le	231	1,049	1,590	22	100	152	8.4	4.5
Fruit and nuts	376	1,693	2,511	22	100	148	2.8	2.9
Poult ry.	73	2,000	7777	2	100	237	1.9	4.5
Dalry	200	1,755	2,576	11	100	147	7.	9.
Livestock (other than dairy and poultry):	1,081	6,156	8,507	18	700	138	6.	6.
General	12	931	1,884	-	100	202	7.	.7
All other	79	1,270	1,644	9	100	129	.2	9.
Total	2,420	19,979	31,401	12	100	157	٤.	1.0

1/ Less than 0.05 percent.

Source: 1959 Census of Agriculture, Vol. 5, part 7 and Vol. II, and 1964 Census of Agriculture, Vol. II, Ch. 6, table 16.



Appendix table 7.--Farms by specified value of sales and average sales by type of farm, 1964

:		sales of : or more :		th sales of 00 or more
Type of farm :	Total farms	Sales per farm	Total farms	: : Sales per farm
:	Number	1,000 dollars	Number	1,000 dollars
Cash-erain	2,141	164	5	1,481
Tobacco	102	434	11	2,174
Cotton	3,465	220	36	3,089
Other field crops	2,237	283	68	3,059
Vegetable	1,590	361	94	2,079
Fruit and nut	2,511	300	93	2,316
Poultry	4,744	2 34	89	1,864
Dairy	2,576	206	19	1,975
Livestock (other than poultry and dairy farms and live-	·			
stock ranches)	6,692	332	322	2,945
Livestock ranches	1,815	361	81	3,429
General	1,884	255	53	1,992
Miscellaneous	1,644	257	48	1,475
: Total:	31,401	272	919	2,576

Source: Data derived from special tabulation of the 1964 Census of Agriculture made available by Bur, of Census.



Type of farm	ļ			egional	Regional distribution	neron o	of farms with	with sales	-es ot			
	\$1,000,000	٥٢	more	\$500,	666, 6668-000, 0038	666	\$200	\$200,000-\$499,999	666,	\$100,	\$100,000-\$199,999	666
	North	South	West	North	South	West	North	South	West	North	South	West
1.						Per	-Percent					
NI farms	<u>×</u>	25	57	23	31	97	26	32	42	33	34	33
Cash-prain			100	_	35	62	101	97	77	21	52	27
Tobacco	100	;	ļ	98	14	ì	52	87	ł	16	84	ļ
Cotton	!	11	83	!	45	55	r-1	63	36	7	74	24
Other field crops	7	13	80	31	54	45	39	17	77	45	18	37
Vegetahle	r,	33	č,	11	53	09	13	5.4	63	18	23	59
Fruit and nut	-1	58	17	-3	77	52	6	32	59	15	56	59
Poultry	53	43	36	27	77	53	31	47	22	34	47	19
Daf my	10	37	53	5	32	63	7	24	69	14	26	09
Livestock farms 1/	31	16	53	87	16	36	63	15	22	78	6	13
Livestock ranches	¢	25	69	10	07	ွှ	6	35	59	11	31	58
General	ļ	-1	96	7	10	83	>	20	75	12	34	54
Miscellaneous	77	27	67	41	28	31	4.5	26	28	94	28	26
	1			ď.	Percentage		distribution	of sales				
! .						Per	-Percent					
••			•	į							i	
All farms	ا [²	23	25	5.3	31	97	26	32	4.2	33	34	33
Cash-grain	10	}	100	c1]c	C1;c	62	ો	776	57	20 28	52	28
Cofficer		7	96) 	75	5.7	ો) (S	37) r.	77	7.6
Other field crops	t,	15	81	31	23	97	39	17	77	45	17	, % , %
Vegetable	5.1	77	79	12	2.1	09	12	24	99	18	23	59
Fruit and nut	[~]	(° 1	34	[7]	[7]	51	6	33	58	15	26	2 9
Poultry	14	97	38	52	4.5	53	31	87	2.1	34	4.7	19
DALTY	710	(۱۱	ر ان ان	/ <mark>1</mark> /	15/	, 112	7	24	69	13	26	61
Livestock ranches	"	187	62	10	9 68	8 5	1 O	32	27 2 8	12	30 4	7 20
General		17	2/	9	7.7	2.7	'n	19	9/	11	33	56
Miscellaneous	77	1-1	íΞ	41	951	ìR	45	56	29	45	28	27
										i		

 1ℓ Livertock other than poultry and dairy farms and livestock ranches. $\frac{2}{2}\ell$ Data withheld to avoid disclosure of individual operations.

Source: Data derived from a special tabulation of the 1964 Census of Agriculture made available by Bur, of Census,



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Appendix table 9.--Number and sales of farms with sales of \$100,000 or more by specified size and as a percentage of total for all commercial farms, by type of farm, North, 1964

Total, Si,000,000 S500,000-		100	<u>.</u>	Th	the largest farms as a percentage of all commercial farms in the North	argest farms as a percentage commercial farms in the North	centage of al	-
Number Percent Percent Percent 30,9 860 100,0 0.13 3,484 100,0 1.23 3,484 100,0 1.23 3,484 100,0 11,18 3,484 100,0 11,18 3,905 100,0 2.55 28,884 100,0 2.55 28,884 100,0 2.55 27,920 100,0 2.77 27,920 100,0 2.77 27,920 100,0 2.77 27,920 100,0 2.77 27,920 100,0 2.77 27,920 100,0 2.77 27,920 100,0 2.77 27,920 100,0 2.77 27,920 100,0 2.77 27,920 27,92		Non	rth	Total, \$100,000 or more	: \$1,000,000 : or more	666*666\$: -000*005\$:	: \$200,000- : \$499,999	: \$100,0000- : \$199,999
1,137,087 100.0 0.9 309,860 100.0 1.2 3,484 100.0 1.2 7,996 100.0 2.6 12,236 100.0 2.5 12,236 100.0 2.5 12,236 100.0 2.5 12,236 100.0 2.5 12,236 100.0 2.5 12,236 100.0 2.7 12,249 100.0 0.2 98,400 100.0 0.2 98,400 100.0 0.2 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 10.5 17,042 100.0 10.5 17,042 100.0 24.5 176 100.0 176 100.0 176 100.0 176 100.0 176 100.0 176 100.0 176 100.0 177 128 178 12		Number	Percent	Percent	Percent	Percent	Percent	Percent
309,860 100.0 0.1 3,221 100.0 11.2 3,484 100.0 11.8 7,996 100.0 2.6 11,236 100.0 2.6 11,236 100.0 2.7 28,884 100.0 0.1 6,377 100.0 0.2 27,920 100.0 2.7 27,920 100.0 12.5 3,882 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 10.0 2.7 48 100.0 2.7 48 100.0 2.7 176 100.0 10.0 24.7 176 100.0 10.0 24.7 176 100.0 24.7 176 100.0 24.7 176 100.0 24.7 176 100.0 24.7 176 100.0 24.7 176 100.0 24.7 176 100.0 24.7 176 100.0 24.7 176 100.0 24.7 176 100.0 24.7 176 100.0 35.5 176 100.0 10.0 35.5 176 100.0 24.7 176 100.0 100.0 35.6 176 100.0 24.7 176 100.0 100.0 35.6 176 100.0 24.7 176 100.	· · · · · · · · · · · · · · · · · · ·	1,137,087	100.0	6.0	1/	11/	0.2	0.7
3,221 100.0 1.2 3,484 100.0 1.3 3,484 100.0 1.3 7,996 100.0 2.6 12,236 100.0 2.6 12,236 100.0 2.6 12,236 100.0 2.5 38,846 100.0 0.1 98,840 100.0 0.2 27,920 100.0 0.2 27,920 100.0 12.5 3,882 100.0 12.5 3,882 100.0 10.0 405 100.0 10.0 405 100.0 10.0 405 100.0 10.0 405 100.0 35.5 406 100.0 35.5 3,631 100.0 18.3 6,034 100.0 18.3 6,034 100.0 18.3 6,034 100.0 18.3 6,034 100.0 18.3 6,034 100.0 18.3 6,034 100.0 18.3 6,034 100.0 2.7 465 100.0 24.7 465 100.0 24.7 465 100.0 24.7 466 100.0 35.6	Cash-grain	309,860	100.0	0.1	1	<u> -</u>	1/	0.1
3,484 100.0 1.3 7,996 100.0 2.6 12,236 100.0 2.5 18,884 100.0 2.5 18,884 100.0 0.1 0uliry and dalry 342,499 100.0 3.0 98,840 100.0 0.2 27,920 100.0 0.2 27,920 100.0 12.5 17,042 100.0 12.5 3,882 100.0 12.5 48 100.0 10.0 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,045 100.0 12.4 17,045 100.0 12.3 18,3 19,631 100.0 12.3 19,631 100.0 12.3 19,631 100.0 12.3 19,631 100.0 12.3 19,631 100.0 12.3 19,631 100.0 12.3 19,631 100.0 12.3 19,631 100.0 12.3 19,631 100.0 12.3 19,631 100.0 12.3 19,631 100.0 12.3	Tobacco	3,221	100.0	1.2	0.3	0.2	7.0	0.3
10,000 11,8 12,236 100.0 2.6 12,236 100.0 2.5 12,8484 100.0 2.5 12,499 100.0 1.4 12,499 100.0 3.0 13,499 100.0 3.0 14,499 100.0 3.0 15,420 100.0 2.7 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 12.5 18,35 100.0 35.5 19,05 100.0 12.5 19,05 100.0		3,484		o	1	1 :	0.2	1.1
12,235 100,0 2.5 18,884 100,0 2.1 286,765 100,0 0.1 342,499 100,0 1.4 6,377 100,0 0.2 98,840 100,0 0.2 27,920 100,0 2.7 17,042 100,0 12.5 17,042 100,0 12.5 17,042 100,0 12.5 17,042 100,0 12.5 17,042 100,0 12.5 17,042 100,0 12.5 17,042 100,0 12.5 17,042 100,0 12.5 17,042 100,0 12.5 17,042 100,0 12.5 17,042 100,0 12.5 17,042 100,0 12.5 17,042 100,0 12.5 18,34 100,0 12.5 18,34 100,0 12.5 19,055 100,0 19,055 100,0 19,055 100,0 19,055 100,0 19,055 100,0 19,055 100,0 19,055 100,0	Other fleld crops	7,996		11.8	0.1	0.3	2.8	9.6
## 100.0 1,4	:	200,0		2.6	<u> </u>	7.0	7.0	/·I
nches 342,499 100.0 0.1 nches 342,499 100.0 0.2 0.377 100.0 0.2 27,920 100.0 0.2 27,920 100.0 0.2 Million collars recent recent dollars 100.0 12.5 17,042 100.0 12.5 3,882 100.0 12.5 48 100.0 10.0 464 100.0 10.0 24.7 906 100.0 30.1 235 100.0 34.7 176 100.0 10.0 24.3 906 100.0 10.0 24.3 906 100.0 10.0 24.3 906 100.0 35.6 1.4 1.7045 100.0 12.5 1.4 1.7045 100.0 10.0 24.3 906 100.0 35.6 1.4 1.7045 100.0 10.0 24.3 906 100.0 35.6 1.4 1.7045 100.0 10.0 24.3 906 100.0 35.6 1.4 1.7045 100.0 10.0 1.4 1.7045 100.0 10.0 1.4 1.7045 100.0 10.0 1.4 1.7045 100.0 10.0 1.4 1.7045 100.0 10.0 1.4 1.7045 100.0 10.0 1.4 1.7045 100.0 10.0 1.4 1.7045 100.0 10.0 1.4 1.7045 100.0 10.0 1.7045 100.0 100.0 1.7045 100.0 100.0 1.7045 100.0 100.0 1.7045 100.0 100.0 1.7045 100.0 100.0 1.7045 100.0 100.0 1.7045 100.0 100.0 1.7045 100.0 100.0 1.7045 100.0 100.0 1.7045 100.0 100.0 1.7045 100.0 100.0 1.7045 100.0 100.0 100.0 1.7040 100.0 100.0 100.0 1.7045 100.0 100.0 100.0 1.7045 100.0 100.0 100.0 1.7045 100.0 100.0 100.0 1.7045 100.0 100.0 100.0 1.7045 100.0	מייים של הייים מתכניים מייים מיים מייים מייים מייים מייים מייים מייים מייים מייים מייים מי	007.71		6.7	-15	7.0	0.0	۲. ر د
nches and daily 342,499 100.0 1.4 e,377 100.0 0.2 27,920 100.0 0.2 27,920 100.0 2.7 Sales as a Million dollars Percent Percent 17,042 100.0 12.5 3,882 100.0 12.5 48 100.0 10.1 48 100.0 10.1 48 100.0 10.1 405 100.0 35.5 3,631 100.0 15.3 0ck inches) 6,034 100.0 15.3 462 100.0 35.5 464 100.0 35.5 465 100.0 35.5 466 100.0 35.5 467 100.0 35.5 468 100.0 35.5 469 100.0 35.5 460 100.0 35.5	:	786 765		7.0	1.0	· · ·	1.3	
14,499 100.0 1.4 6,377 100.0 3.0 98,840 100.0 0.2 27,920 100.0 2.7 27,920 100.0 2.7 17,042 100.0 12.5 17,042 100.0 12.5 17,042 100.0 10.5 17,042 100.0 10.5 17,042 100.0 10.5 17,042 100.0 10.5 18,7 100.0 10.5 19,8 100.0 10.5 19,9 100.0 10.5 19,9 100.0 10.5 19,9 100.0 10.5 19,9 100.0 10.5 19,9 100.0 10.5 19,9 100.0 10.5 19,05 100.0 19,05 100.0 19,05 100.0 19,05 100.0 19,05 100.0 19,05 100.0 19,05 100.0 19,05 100.0 19,05 100.0 19,05 100.0 19,05 100.0 19,05 100.0 19,05 100.0 19,05 100.0 19,05 100.0 19	Livestock (other than bould by and dailing	5014 607		•	ને	ો	ો	1.
Sales 9,377 100.0 3.0 98.840 100.0 0.2 27,920 100.0 2.7	farms and livestock ranches	342,499	100.0	1.4	1/	0.1	0.3	1.0
Sales 100.0 0.2 27,920 100.0 2.7 Sales as a 1111on		6,377	0.001	3.0	0.1	0.2	0.7	2.0
Sales Sales Sales as a Sa	Caneral	078,86	100.0	0.2	1	1,	1/	0.2
Sales is Sales as a state of the content of the con	Miscellaneous	27,920	100.0	2.7	c. 2	0.2	8.0	1.6
Maillon Percent Percent Adollars Percent 17,042 100.0 12.5 3,882 100.0 12.5 4,8 100.0 7 64 100.0 7 70 64 100.0 10.1 176 100.0 24.1 187 100.0 35.5 188 100.0 12.5 198 100.0 198 100.0								
Million Million Percent Streent Percent Million Mill	•	Sa	les		ретсептяре об	all comerc	cial farms in	the North
Action Percent Percent Percent Percent 17,042 100.0 12.5 2.1 1.4 3,882 100.0 10.4 48 100.0 7 49.7 64 100.0 10.1 7 49.7 2/2 7 40.5 100.0 30.1 7 7 49.7 7 7 7 7 7 7 8 8 100.0 10.1 9 9 9 9 9 9 9 9 9								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		dollars	Percent	Percent	rcent	Perrent	Percent	Percent
3,882 100.0 1.4 2/48 100.0 7 49.7 2/48 100.0 10.1 2/48 100.0 10.1 2/4.3 176 100.0 24.1 2/7 2/7 2/4 2/4 2/4 2/4 2/4 2/4 2/4 2/4 2/4 2/4	Farms	17,042	100.0	12.5	2.1	1.4	3.4	5.6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Cash-grain	3,882	100.0	3.	-	2./	27	1.2
64 100.0 10.1 105 4.3 106 100.0 4.7 176 100.0 24.1 27 2/	Tobacco	87	100.0	7.	49.7	િંા	7/	2.9
7. 1.9 4.3 4.3 1.00.0 4.5.7 1.9 4.3 4.3 1.00.0 30.1 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/	Cotton	79	100.0	10.,	-		2.6	ر . د .
176 00.0 24.; 2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	Other fleld crops	405	100.0	44.7	1.9	4.3	7.	7.5.7
906 100.0 35.5 3.03 908 100.0 35.5 3.03 908 100.0 18.3 4.2 2 134 100.0 18.3 4.2 2 134 00.0 35.6 6.1 6.1 14055 100.0 40.4 6.8 7.1	:	176	0.00	3 3	//[/2:	7.01	11.6
poultry and 6,034 100.0 13.3 4.2 2.1 134 100.0 18.3 4.2 2.1 134 100.0 18.3 4.2 2.1 134 100.0 18.3 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1		906	0.001	24°.	ار 0	٦١. ١	10.01	2,95
poultry and (6,034 100.0 18.3 4.2 2 134 00.0 35.6 6.1 6.1 6.1 6.1 6.1 1.065 100.0 40.4 6.5 7.1	1 Out. Ly	3 631	0.001	7.	, ,	7.0		0
inches)	: تا	10010			•	ì		` `
134 00.0 35.6 6.1 6.2 1,065 100.0 2.7 0.4 462 100.0 40.4 6.8 7.1	dairy farms and 1' "estock inches)	6,034	100,€	18,3	4.2	-1	4.3	7.8
1,065 1/0,0 2.7 0.4 6.5 7.1 462 100.0 40.4 6.8 7.1	Livestock ranches	134	0.00	35.6	6.1	6.1	10.0	13.4
		1,065	100.0	1.7	1	٥.4	9.0	1.7
	Miscellaneous	797	100.0	7.07	و•9	7.1	13.7	12.6
	•							

1/ Less than 0.05 mercit.

2/ Enta Withheld that avoid distingue of individual operations.

Source: Data Perived from a special tabulation of the 1964 Centus of Agriculture made available by Burt of Consus.



			,	The largest	The Largest farms as a percentage of all commercial farms in the South	percentage of in the South	
Type of farm:	Commercial Carms,	South	Total. \$100,000 or more	\$1,000,000	-000°0088	\$200,000- \$499,957	\$100,000- \$199,999
	Number	Percent	Percent	Percent	Percent	Percent	Percer
· · · · · · · · · · · · · · · · · · ·	819,849	10,0	1.3	1/	0.1	1	6.0
Cash-grain	66,438	0.001	1.6	1	1/	0.2	1.4
Товяссо	168,163	100.0		71	7	-1	1, 1/
	154,336	100.0	1.6	\ - -	/ilo	4.00	. 1. 1.
:	6,104	0.001	1. 7 2. 7			7.0	
Profit and nutter and	12, 595	100.0	9.0	7.0	9.0	1.8	. m
	866,97	100.0	4.7	0.1	0.2	1,2	3.2
Datry	57,982	100.0	1.2	-1	0.1	0.3	0.8
Livestock farms (other than poultry and dairy:	;			•	;		c
farms and livestock ranches)	133,445	100.0	٠,٠ ١	\ [7/5	7.0	7.0
Livestock ranches	24,01	100.0	, t	0.1	1.	0.0	9.0
Wase anoma	39.219	100.0		- j); (°0	0.3	0.0
				Sales as	s a nercentage of all	, of all	t i
	Sa	Sales		commercial	· 🖫	the South	
	M43.14.on						
	dollars	Percent	Percent	Percent	Percent	Percent	Percent
	10,149	100.0	25.1	5,4	3.2	7.1	7.6
Cash-grain	1,007	100.0	16.9	i	77	2.1	11.8
Торассо	1,071	100.0	6.0	1	77	12,	0.5
Cotton	1,903	100.0	22.9	0	1.7	8.0	13.0
Other field crops	323	100.0	33.6	s. 6	4.1	8.4	11.3
Veget ab le	22.8	100.0	71.5	2/	2/	16.2	11.3
Fruit and nut	477	100.0	66.5	/ <u>7</u> /	ÈÌÍ,	14.7	11.7
:	1,596	100.0	32.6	8,7	4.3	10.6	12.9
Livestock farms (other than noultry and dairy)	006	100.0	0.67	/=	7=	7.	
	1,001	0.001	29.4	13.6	3.9	6.3	5.6
	470	100.0	36.9	10.6	6.7	6.7	6.6
Gene rate	835	100.0	10.9	77	/i/	e :	6.7
Mi and I and the	25.8	0.001	777	2	×	7 7	7

 $[\]underline{1}^{\prime}$ loss than 0.05 percent. $\underline{2}^{\prime}$ bata withheld to avoid disclosure of individual operations.

Source: Data derived from a special tabulation of the 1964 Census of Agriculture made available by Bur. of Census.



Appendix table 11,...Number and sales of farms with sales of \$100,000 or more, by specified size and as a percentage of topal total for all commercial farms, by type of farm, West, 1964

	9	Commence of the Commence of		The largest all comme	The largest farms as a percentage of all commercial farms in the West	ercentage of the West	
Type of farm	Vommercial	at idims.	Total, \$100,000 or more	\$1,000,000 or more	666 , 6985 :	. \$200,000- : \$499,999	\$100,000- \$199,999
	Number	Percent	Percent	Percent	Percent	Percent	Percent
	208,776	100.0	5.5	0,3	0.3	1.6	3,3
Cash-grain	27,955	100.0	2.3	1/	0.1	0.5	1.7
Tobacco	1	!		ıţ	ļ	<u> </u>	1
Cotton	6,256	100.0	15.7	o• 5	1.0	8.4	7.6
Other field crops	8,950	100.0	10,1	9.0	-1	2.8	6.3
Vegetable	5,065	100.0	19.0	1.2	1.9	6.5	9.6
Fruit and nut	32,425	100.0	, i	0.1	ε ·	1.3	200
	0,230	0.001	را ب د	C	7 ° C	4.0	0.0
Livestock farms (other than poultry and dainy:	077, 77	100.0	7.,	} I	2.5	1.9	2
	38,585	100.0	3.1	7.0	0.3	8.0	1.6
Livestock ranches	25,332	100.0	4.2	0.2	0.3	1,1	5.6
Ceneral	24,361	100.0	8.7	0.2	0.3	1.5	2.8
Miscellaneous.	11,389	100.0	3.9	0.1	0.3	1.2	2.3
	S	Sales		Sales as commercia	Sales as a percentage of all commercial farms in the West	of all ne West	
•	Million						
	dollars	Percent	Percent	Percent	Percent	Percent	Percent
Fатта	7,178	100.0	53.9	20.4	6.9	13,3	13.3
Cash-grain	617	100.0	20.3	1.2	1.9	7.0	10.2
Tobacco	ļ	1	ļ	ļ	}	į	<u> </u>
Cotton	797	100.0	9.89	22.8	9.2	19.2	17.4
Other field crops	<u> 7</u> 95	100.0	62,3	30.1	9.4	12.6	14.0
Vegetable.	453	100.0	79.1	27.7	14.4	22,3	14.7
Fruit and nut;	205	0.001	42.1	co.	£.7	13,8	13.7
Poultry	417	100.0	64.2	15.1	10.7	22	20.2
Livestock farms (other than poultry and dairy:	744	100.0	7, 7, 7, 7	77	$\overline{2}$	16.1	20.7
farms and livestock ranches)	1,260	100.0	65.5	7.77	7.2	7.3	9*9
Livestock ranches	806	100.0	53.8	27.2	5.0	10.7	10.9
General	721	100.0	53.4	$\frac{2}{6}$	$\frac{2}{10}$	15.4	13.2
	1	2.001			0.01		•

1/ less than 0.05 percent. $\frac{2}{2}/$ Data withheld to avoid disclosure of individual operations.

Source: Dat. derived from a special tabulation of the 1964 Census of Agriculture made available by Rur. of Census.



Appendix table 12, -- Average sales of farms with sales of \$100,000 or more, by type of farm and by geographic region, 1964

	Average sales in North	es in North	: Average sales in South	es in South	. Average sales in West	es in West
Type of farm	Farms with sales of \$100,000 or more	Farms with sales of \$1,000,000 or more	Farms with sales of \$100,000 or more	Farms with sales of \$1,000,000 or more	Farms with sales of \$100,000 or more	Farms with sales of \$1,000,000 or more
			1,000 dollars	llars		
All farms	220	2,156	246	2,375	339	2,795
Casin-grain	137	}	157	ł	194	1,481
Tobacco	853	2,174	163	}	;	;
Cotton	150	-	179	1,232	325	3,321
Other field crops	193	1,585	274	3,507	382	3,121
Vegetable	223	17	418	11	372	2,056
Fruit and nut	184	1/	421	/ī	262	1,941
Poultry	208	1,422	233	2,003	275	1,960
Dairy	169	/1	219	i/	207	1/
Livestock ranches	247	1,627	304	2,498	413	3,922
Other livestock,	233	2,523	348	2,677	683	3,271
General	169	}	170	1,	306	17
Miscellameous	251	1,497	252	1,304	272	1,600

1/ Data withheld to avoid disclosure of individual operations.

Source: Data derived from a special tabulation of the 1964 Cansus of Agriculture made available by Bur. of Census.



Appendix table 13.--Sales or production of farms with sales of \$100,000 or more, reporting specified

: Specified product :	Unit of production or sales	Production or sales as a per of total for all farms	ss as a percentage
:		1959	1964
Livestock and poultry sold alive, and their products sold:		Percent	ant
Cattle and calves	Dollar sales	. 22.7	32.8
Hogs and pigsSheep and lambs	do. do.	1.9	4.7
18 b1	do.	14.8	23.3
Whole milk	do. do.	, 7.4 : 10.1	10.7 36.8
Specified crops:		••	
Corn for grain	Bushels harvested	1.8	3.8
Whcat	do.	NA	5.6
Cats	do.	Ψ	2.7
Sorghum for grain or seed		. AN	14.4
	do.	: NA	8.04
Soybeans	do.	Y.V	7.0
Potatoes	do.	25.5	53.0
Cotton	Bales harvested	AN .	29.9
Tobacco	Pounds harvested		2.0
Vegetables	Dollar sales	. 49.3	6.09
Fruits and nuts	do.	31.0	0.94

NA - Not available.

Source: 1959 Consus of Agriculture, Vol. I, Ch. 11 and Vol. 5, part 7, and 1964 Census of Agriculture, Vol. II, Ch. 6.



Appendix table 14.--Number and percentage distribution of farms with sales of \$100,000 or more, by specified size in value of sales and by acreage, 1964

				Farms rep	Farms reporting acreage of-	age of			
Size of farm in value of sales	Less than	: 10-6,	70-139	140-259	260-499	500-999	1,000-	2,000 or more	Total
·· ·					Xumber				
\$1,000,000 or move	7	75	7.4	09	56		141	442	616
\$500,000-\$999,999	17	144	7.2	46	118		266	578	1.574
5200,000-5499,999.	146	773	345	246	950		1,428	2,131	7,760
\$100,000-\$199,999	674	1,895	1,066	1,978	3,527	4,343	3,927	3,738	21,148
Total	838	2,387	1,557	2,681	4,651	6,136	5,762	688,9	31,401
.'				Percent	Percentage distribution	utjon			
<i>1.</i> 1					Porcent				
\$1,000,000 or more	0.1	80	8.1	6.5	6.1	7.6	15.3	48.1	100.0
: *** 000 0055	1.1	9.1	9.4	6.2	7.5	17.9	16.9	36.7	100.0
5200,000-\$499,999	1.9	10.0	7-7	7.0	12.2	18.6	18.4	27.5	100.0
-:	3.2	9.0	5.0	9.3	16.7	20.5	18.6	17.7	100.0
Total	2.7	9.2	5.0	8.5	14.8	19.5	18.4	21.9	100.0

Source: Data derived from special 'abusation of the 1964 Census of Agriculture made available by Bur. of Census.

Appendix table 15 .-- Tenure under which farmland was operated, all farms, specified years, 1944-64

Voca	: : Total		ntage of far rated under-	
Year	: farmle id <u>1</u> / :	Ownership	Rental	Paid management
	Million acres		Percent	
1944 <u>3</u> / 1949 1954 <u>3</u> / 1959	1,142 1,161 1,160 1,123 1,110	53 56 56 55 54	38 35 35 35 <u>4</u> / 36	9 9 9 10 10

¹/ Except for 1944, totals for the 3 kinds of tenures were estimated by assuming that part owners(included in both ownership and rental) did not subrent their rented land.

Source: 1964 Census of Agriculture, Vol. II, Ch. 8, table 2, p. 754.



 $[\]frac{2}{3}$ / Computed before rounding numbers. $\frac{3}{4}$ / Alaska and Hawaii not included. Estimated by subtracting acreages operated by owners and managers from total acreage.

Appendix table 16.--Nonfarmwork of farm operators on farms with sales of \$100,000 or more, by State, $1964\,$

:		: 	Konfarmwork	of farm operator	
Region and State	Operators	: Operators	: Days worked on	: Average days	worked by
		: reporting <u>1</u> / : :	nonfarm jobs	Operators reporting 1/	All operators
:	Number	Percent	Days	Days	Days
Inited States	31,401	16	720,135	142	23
New England:			-		
Maine	4 39	22	11,346	116	26
New Hampshire	42	14	880	147	21
Vermont	_	33	1,183	99	32
Massachusetts		12	3,106	163	20
Rhode Island		12	280	93	11
Connecticut		8	2,202	169	14
Middle Atlantic:	103	Ü	2,202	107	14
	647	12	8,008	107	12
New York		6	2,866	159	10
New Jersey		17		146	24
Pennsylvania			11,805	-	
Delaware		19	5,640	188	35
Maryland	261	26	9,492	138	36
ake States:					
Michigan		18	8,339	139	2.5
Wisconsin:		16	9,854	167	28
Minnescta:	537	21	15,714	1 37	29
Corn Belt: :					
Ohio:	475	15	11,263	154	24
Indiana:	458	2 3	13,451	129	29
111inois:	1,053	17	14,895	81	14
lo-a:		19	28,033	100	19
Missouri:	482	23	17,054	156	35
orthern Plains:	=	=	•	===	
North Dakota	209	19	5,310	1 36	25
South Dakota	2 80	17	4,545	97	16
Nebraska		16	18,187	109	18
Kansas	748	16	15,436	128	21
ppelechian:	, , , ,	•	.,,0	120	- 1
	321	23	11,509	156	36
Virginia		27	2,987	176	47
West Virginia		24		165	39
North Carolina		27	17,497		
Kentucky	164	_	5,793	129	35
Tennessee,	188	21	5,912	148	31
outheast:	220	20	0.420	1.12	2.0
South Carolina:	338	20	9,420	143	28
Ceorgia	725	27	31,836	163	44
Florida	1,611	18	54,951	186	34
Alabama	412	26	19.342	179	47

Sre footnote at end of table,



Appendix table 16.--Nonfarmwork of farm operators on farms with sales of \$100,000 or more, by State, 1964--Continued

;		·	Nonfarmwork	of farm operator	
Region and State	Operators	: : Operators	: : Days : worked on	: Average days	worked by
; ; 		: reporting <u>1</u> / :	nonfarm jobs	Operators reporting 1/	All operators
	Number	Percent	Days	Days	Days
Delta States:					
Mississippi:	1,213	15	27,629	153	23
Arkansas	1,203	12	22,080	148	18
Louisiana:	438	18	12,600	164	29
Southern Plains: :			•		
Oklahoma:	2 76	19	8,440	162	31
Texas:	2,499	19	78,646	163	31
fountain: :					
Montana:	251	16	6,340	163	25
Idaho:	505	17	9,699	113	19
Wyoming:	170	15	2,479	95	15
Colorado:	675	17	12,386	111	18
New Mexico:	318	15	6,314	134	20
Arizons!	841	10	13,044	155	16
Ut ah	143	25	5,789	161	40
Nevada:	89	11	1,530	153	17
Pacific:			·		
Washington:	72 1	13	12,904	1 39	18
Oregon	512	12	7,761	127	15
California:	7,043	11	110,562	141	16
Alaska:	NA	NA	NA.	NA	NA
Hawaii:	127	14	3,766	209	30

^{1/} Includes some operators who worked on other fares. Less than 4 percent of the days worked off-farm was on other farms. NA = Not applicable.

Source: 1964 Ensus of Agriculture, Vol. 1, table 23.



Appendix table 17.--Average off-farmwork and off-farm income per farm, by operators and by other persons in operator households, by State, all farms, 1964

1	Average da	Average days worked per farm at off-farm jobs by1/	Average off-	Average off-farm income per farm from all sources of-2/
Megion and State	Operators	Other members of operator howseholds	Operators :	Other members of operator households
	Days	Days	Dollars	Dollars
United States,	62	97	2,360	824
New England:				
Maine	100	72	2,211	1,147
New Hampshire	112	73	2,864	1,216
Vermont	7.5	77	1,860	1,172
Massachusetts	84	63	2,684	1,396
Rhode Island	85	39	2,229	1,023.
Connecticut	84	89	3,016	1,486
Middle Atlantic:	,			
New York	81	58	2,269	1,185
New Jersey	9	51	2,508	1,207
Pennsylvania	76	5.7	2,480	1,026
Delaware	28	46	2,211	835
Mary Land	82	62	2,764	1,251
Lake States:				
Michigan	109	55	3,139	1,090
Wisconsin	69	51	1,832	886
Manesota	87	37	1,680	679
Corm Belt:				
Oh10	100	87	2,870	973
Indfana	66	54	2,933	1,005
Illinois	09	39	2,147	808
Icwa	43	31	2,013	590
Missouri	80	70	2,270	669
Northern Plains:				
North Dakota	23	2.7	1,573	517
South Dakota	53	26	1,378	967
Neb raska	38	29	2,017	554
Kansas	وي 9	38	2,392	704
The second secon				

See footnotes at end of table.



and by	
oppendix table 17Average off-farmwork and off-farm income per farm, by operators and by	Continued
by	1
farm,	, 196
per :	farms
in come	a11
f-farm	other persons in operator households, by State, all farms, 1964Continue
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pue :	olds,
rmwo rk	house
off-fa	erator
rage	do u
Ave	I su
17	perso
table	other
Appendix	_

Appalachian: Virginia West Virginia North Carolina Tennessee Tennessee To Operators Days 0485 0485 109 North Carolina 71 71 71	Other operato	Operators	Other members of operator households
nia. lina.		•	
nta. Lina.	Capa	Dollars	Dollars
ginia. rolina.			
ginia. rolina.	58	2,183	886
rolina	38	2,679	691
	61	1,678	855
	39	1,812	099
	54	2,030	820
••			
South Carolina 87	73	1,886	1,007
Georgia 91	79	2,233	972
	67	3,239	925
	51	2,135	962
Delta States:			
Mississippi 81	20	1,759	869
Arkansas 86	7,7	1,832	909
Louisiana	35	2,575	699
Southern Plains:			
Oklahoma 102	41	2,827	269
Texas 93	42	3,052	800
Mountain:			
Montana 54		2,072	685
Idaho 83		2,294	814
•••••••••••••••••••••••••••••••••••••••		2,203	798
•••••••••••••••••••••••••••••••••••••••		2,715	774
New Mexico 84	34	3,174	069
Arizoma	41	3,976	606
	56	3,392	7.26
	95	2,764	1,032
••			
Washington 107	87	3,450	096
Oregon 114	52	3,655	1,011
	97	4,279	1,191
Alaska 107	34	5,319	616
Hawaii 129	97	3,309	1,735

that done by other household members.

2 Operators' off-farm income consisted of: 60 percent, wages and salaries; 21 percent, nonfarm businesses or professions and social security and other benefits; 19 percent, Government payments, rent, interest, dividends, and so forth. Source: 1964 Census of Agriculture, Vol. II, Ch. 5, tables 22 and 23.

Appendix table 18. -- Off-farm income of all persons in farm operator households, by size of farm, all farms, 1964

Off-farm income			Size of farm 1/	,	
	Total 2/	Largest	Large	Medium	Small
			Bollars		
Wages and salarics	6,447,322,367	37,876,948	390,249,695	1,371,145,750	7.648,049,974
Nonfarm business or profession	1,154,776,676	19,373,461	132,838,482	284,366,754	718,197,979
Social security, pensions, veteran and welfare :	841,370,922	3,553,721	39,125,993	147,293,553	651,397,655
Rent from farm and nonfarm property, interest, : dividends, Government payments and so forth:	1,604,223,997	85,228,547	424,091,365	590,115,999	504,788,086
20th	10,047,693,962	146,032,677	986,305,535	2,392,922,056	6,522,433,694
			-Percentage distribution-	ution	
Wages and salaries	64.1	25.9	39.5	57.3	71.3
Nonfarm business or profession	11.5	13, 3	13.5	11.9	11.0
Social security, pensions, veteran and welfare payments	8.4	2.4	4.0	6.1	10.0
<pre>Rent from farm and nonfarm property, interest, : divigends, Government payments, and so forth</pre>	16.0	58.4	43.0	24.7	7.7
Tc.al	100.0	100.0	100.0	100.0	100.0

1/ Farm sizes are measured as follows: The largest--\$100,000 or more; large--\$20,000 through \$99,999; medium--\$5,000 through \$19,999; and small--less than \$5,000.

2/ Indian reservations, institutional farms, and other sp.cial farms are not included.

Source: 1964 Census of Agriculture, Vol. 2, Ch. 6, tables 15 and 16.



Appendix table 19.--Off-farm income of all persons in farm operator households on farms with sales of \$100,000 or more, by State, 1964

:		Off-f	arm income of	operator house	holds
Region and State :	Operator households	: Households	Total off-farm	Averas househo	e per ld for⊶
: : :		: reported :	income	Households reported	All household
:			1,000		
:	Number	Percent	dollars	Dollars	Dollars
Inited States::	31,401	5.7	146,033	8,106	4,651
New England: :	•		-	-	
Maine:		56	787	3,201	1,794
New Hampshire		48	111	5,537	2,637
Vermont,		70 56	240 593	9,210 6,810	6,472 3,798
Rhode Island		64	55	3,464	2,217
Connecticut		58	477	5,077	2 928
Middle Atlantic: :	• • • • • • • • • • • • • • • • • • • •			- •	
New York	647	56	1,549	4,254	2,393
New Jersey:		53	841	5,758	3.035
Permsylvania:		54	1,485	5,626	3,054
Delaware:	162	55	491	5,514	3,029
Maryland:	261	58	813	5.351	3,116
Lake States:	222	• •	1 117	5 776	2 25 2
Michigan	333	59 59	1,117	5,726	3.353 2,941
Wisconsin		64	1,053 1,746	5,014 5,121	3,252
Com Balt:	537	0+	1,740	3,121	3,2 12
0513	4.75	59	1,463	5,261	3,079
Irdiana:	41.2	63	2,730	6.028	3,778
Illinois:		55	3,432	5,877	3,259
!cva:		65	5,125	5,734	3,754
Misseuri:	482	68	2,956	8,956	6,132
Northern Plains: :					•
North Dakota:	209	74	1,166	7,132	5,289
South Dakota:		68	1,202	6,360	4,293
''ebraska		69	5,230	7,335	5,058
Yansas:	748	70	4,359	8,351	5,828
Appelachia::			1 476	2 126	
Virginia:		64 67	1,475 203	7,126	4,595
West Virginia:	447	68	1,961	4,829 6,410	3,219 4,388
Rantucky,		68	1,037	9,256	6,321
Tanessee		€.6	1,066	8,597	5,670
Southeast: :	100		.,	- 1	210.0
South Carolina	338	64	1,367	5,995	3,867
Georgia:		65	2,879	6,138	3.971
Florica:		50	6,941	8,612	4,309
Alabama:		67	1,854	6,716	4,499
Pelta States:					
Mississippi	1,213	58	5,176	7,405	4,267
Arkansas		47	4,099	7,230	3,408
Louisian	438	5 4	2,873	12,044	6,490
Southern Plains:	276	70	4,572	23,813	16 566
Cklahoma		61	21,340	13,930	16,566 8,540
fountain:	2,433	01	21,340	13,550	0,340
Montana:	251	61	1,039	6,837	4,141
Idaho:		57	1 892	6,569	3,746
Wy oming		59	628	6,276	4,868
Colorado		58	3,242	8,291	4,803
New Mexico		54	1,790	10.346	2,629
Arizona:		45	4.094	10,788	4,874
Ctah:		62	679	7,630	4,749
Nevada:	89	52	257	5,622	2,306
Pacific: :				_	,
Washington:	721	58	3,289	7,926	4,562
Oregon:	512	53	1,515	5,611	2,959
California		5 1	31,879	8,858	4,526
Alaska 1/	117		 50 B	7 15 3	1 999
- Hawaif	127	56	508	7,153	3,999

^{1/} Date for Alaska withheld to avoid disclosure.



Source: 1964 Census of Agriculture, Vol. 1, table 23.

Appendix table 20.--Average age and years of schooling of commercial farm operators, by State, 1964

Conterminous U.S. Years Conterminous U.S. 49.4 Alabama 49.7 Arizona 49.7 California 49.7 Colorado 69.9 Colorado 78.9 Colorado 78.8 Colorado 78.9 Colorado 7	Schooling Years 9.5 8.2 12.4 8.8 10.4 10.4 10.4	Nebraska Neyada. New Ada. New Jersey. New Mexico. New York.	Years 47.9 48.9 51.3 51.2 49.8 49.8	Schooling Years 10.2 11.0 10.8 10.1 10.2 10
<u>v.</u>	Years 9.5 8.2 12.4 10.4 10.4 10.4 9.4	Nebraska Nevada New Hampshire New Jergey New Mexico New York Now York	Years 47.9 48.9 51.3 51.2 49.8	Years 10.2 11.0 10.8 10.0 10.1 10.2
<u>v</u>	9.5 12.4 12.4 10.4 10.4 10.4 10.4 10.4 10.5	Nebraska Nevada Nevada New Jersey New Jersey New Wext.co New York North Carolina	47.9 48.9 51.3 51.2 49.8	10.2 11.0 10.8 10.0 10.1 10.2
	8.2.4.2.6.10.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	Nebraska Nevada Nevada New Hengshire New Mexico New York North Carolina	47.9 48.9 51.3 51.2 49.8	10.2 11.0 10.8 10.0 10.1 10.2 7.9
	12.4 18.8 10.4 10.4 9.4 10.2	New Hampshire New Harey New Mexico New York Now York	48.9 51.3 51.2 49.8 49.8	11.0 10.8 10.0 10.1 10.2 7.9
	8.8 10.5 10.4 10.4 10.5 10.5 10.5	New Hampshire New Jersey New Mexico New York North Carolina	51.3 51.2 49.8 49.3	10.8 10.0 10.1 20.2 7.9
	10.9 4.01 9.4 9.4 10.2	New Mexico	51.2 49.8 49.3	10.0 10.1 10.2 7.9
	10.4	New Mexico	49.8 49.3	10.1
	10.4 9.4 10.2	New York	6.67	10.2
	9.4 10.2	North Carolina		7.9
	10.2		48.5	•
		North Dakota:	47.4	9.3
		: Obto:	7.67	10.4
	0)	· Oklahoma	50.7	6.6
	10.1	. 0 regon	۲: د:	10.8
	10.5	: Pennsylvania	6.84	7.6
	10.2	Rhode Island	51.1	10.2
	10.5	South Carolina:	9.67	8.0
	8.3	South Dakota:	47.5	7.6
	: 6.7	Tennessee	50.5	8.2
	10.6	. Texas	51.2	9.7
	9.1	t Utah:	50.3	11.3
Massachusetts 51.8	: 6.01	. Vermont	49.5	10.0
Michigan 49.4	: 6.6	. Virginia	51.0	8.2
	9.3	: Washington:	50.1	10.7
Massissippi 50.3	8.3	: West Virginia:	52.4	8.8
	9.6	Wisconsin	7.87	9.3
Mont. an a	11.2	Wyoming	7.67	10.6
				!

Source: Data derived from 1964 Census of Agriculture, Vol. I, State table 17.



Appendix table 21.--Sales by family farus as a percentage of ail farm sales, by States, $1964 \, \underline{1}/$

New England: 47 Maine. 62 New Hampshire 62 Vermont. 75 Massachusetts 44 Rhode Island. 61 Connecticut. 41 Widdle Atlantic: 63 New Jersey. 63 New Jersey. 72 Delaware. 57 Maryland. 57 Michigan. 79 Wisconsin. 89 Corn Belt: 66 Winsconsin. 89 Illinois. 87 Illinois. 87 Illinois. 81 Ilwissouri. 81 Ilwissouri. 81	Southeast: South Carolina. Georgia. Plorida Alabama. Mississippi Arkantas. Louislana. Southern Plains: Oklahoma. Texas. Montant. Montant. Wyoming.	477 577 577 577 578 577 578 578 574
	Southeast: South Carolina Georgia Plorida Alabama Delta States: Mississippi Arkantas Louisiana Southern Plains: Oklahoma Texas. Montain: Montain: Wyoming.	5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	South Carolina Georgia Plorida Alabama Belta States: Mississippi Arkancas Louislana Southern Plains: Oklahoma Texas. Montain: Montain: Womtanc	5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Plorida Alabama Belta States: Mississippi Arkancas Louislana Southern Plains: Oklahoma Texas. Montain: Montain: Montain: Myowing.	57 20 50 50 72 73 73 73
	Plorida Alabama Belta States: Mississippi Arkancas Louisiana Southern Plains: Oklahoma Texas. Montain: Montain: Montain: Myoming.	20 64 52 52 72 72 53 64 73
	Alabama. Delta States: Mississippi Arkangas. Louislana. Southern Plains: Oklahoma. Texas. Montain: Montain: Lidaho. Wyoming.	64 45 52 52 72 48 53 43
	Mississippi Arkancas Louislana Southern Plains: Oklahoma Texas. Montain: Montain: Idaho.	4.5 52 52 79 72 58 543
	Mississippi Arkancas Louislana Couthern Plains Oklahoma Texas Mountain: Montanc Idabo.	4.5 50 52 79 4.8 72 58 543
	Arkancas Louislana Louislana Southern Plains Oklahoma Texas Mountain: Montanc Idabo.	50 52 72 72 53 43
	Southern Plains: Oklahoma. Texas. Mountain: Montanc. Idabo.	52 4 4 2 2 2 2 2 2 3 4 4 3 4 3 4 3 4 3 4
	Southern Plains: Oklahoma. Texas. Mountain: Idabo. Wyoming.	4 4 4 8 8 8 5 5 8 5 5 8 5 5 8 5 5 5 8 5
e e	Southern Plains: Oklahoma. Texas. Mountain: Idaho. Nyoming.	79 48 72 58 57 43
	Oklahoma. Texas. Mountain: Montanc. Idaho.	7.9 7.2 7.8 5.7 6.3
	Texas	7 4 8 72 8 57 43
	Mountain: Montand: Idaho	72 58 57 43
	Montana	72 58 57 43
	is Idaho	72 58 57 43
	Wyoming	57 57 43
		5/ 43
		54
	:	,
	New Mexico	38
	:: Arizona	11
	:: Utah	63
	:: Nevada	29
	Davieto	
	· · · · · · · · · · · · · · · · · · ·	57,
W	· · · · · · · · · · · · · · · · · · ·	
••	· · · · · · · · · · · · · · · · · · ·	
	California	7.7
South Dakota		
	Total (48 States)	79
Kansas78		
Annalachtan:	: :	
	: ::	
	••	
•	•	

1/ Family farms are those with no hired management and with less than 1.5 man-years of hired labor.

Source: Data derived from a special tabulation of the 1964 Census of Agriculture made av illable by Bur. of Census.

